

Phase I Environmental Site Assessment Etowah Future Housing Site County Road 802 Etowah, McMinn County, Tennessee S&ME Project No. 4181-15-055 Phase P

PREPARED FOR

Southeast Tennessee Development District 1000 Riverfront Parkway Chattanooga, TN 37402

PREPARED BY

S&ME, Inc. 4291 Highway 58 Chattanooga, TN 37416

September 25, 2018



September 25, 2018

Southeast Tennessee Development District 1000 Riverfront Parkway Chattanooga, Tennessee 37402

Attention: Mr. Sam Saieed

Reference: Phase I Environmental Site Assessment

Etowah Future Housing Site

County Road 802

Etowah, McMinn County, Tennessee S&ME Project No. 4181-15-055 Phase P

Dear Mr. Saieed:

S&ME, Inc. has completed a Phase I Environmental Site Assessment (ESA) for the referenced property (i.e. "subject property"). The attached report presents the findings of S&ME's Phase I ESA, which was performed in accordance with ASTM E 1527-13 and S&ME Proposal No. 41-1500356, dated September 10, 2015. The purpose of the Phase I ESA was to identify, to the extent feasible, *recognized environmental conditions* in connection with the subject property.

ASTM E1527-13 states that an Environmental Site Assessment "meeting or exceeding" this practice and completed less than 180 days prior to the date of acquisition or intended transaction is presumed to be valid if the report is being relied on by the User for whom the assessment was originally prepared and the following components were completed: interviews, the regulatory review, site visit, and the declaration by the environmental professional responsible for the assessment. Based on this requirement, this report is presumed to be valid for 180 days after September 14, 2018.

S&ME appreciates the opportunity to provide this Phase I ESA for this project. Please contact us at your convenience if there are questions regarding the information contained in this report.

Sincerely,

F. Barry Burnette

Environmental Professional

Johanna Heywood, PE, PG Senior Project Manager

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1.0 Executive Summary

S&ME has completed a Phase I ESA for the approximately 43-acre property, referenced as the "Etowah Future Housing Site", located on the northeast corner of the intersection between County Road 802 and County Road 802, in Etowah, McMinn County, Tennessee (i.e. "subject property"). The approximate center of the subject property is located at 35.315687 latitude and -84.536983 longitude. The subject property is comprised of an irregularly shaped parcel, identified as Parcel No. 118 101.00. The approximately 43-acre subject property is currently vacant, undeveloped land, with intermittent wooded and densely vegetated areas. An unimproved vehicle access (gravel transitioning to dirt) transects the property generally from east to west. The subject property is accessible from the south via County Road 802, and from the west via County Road 801. Land use on the immediately surrounding properties consists of single-family residential and undeveloped properties, with commercial properties located east of the subject property along the Highway 411 corridor.

Based on sources reviewed as part of this Phase I ESA, the subject property has been used by the City of Etowah since at least 2008 for the placement of brush, concrete, asphalt, soil, and miscellaneous building materials. These materials were observed in piles and/or fill at the site during our site reconnaissance. The origin and quantities of these materials could not be determined. In our opinion, in the absence of additional information documenting the nature of material placed on site, in our opinion, the stockpiled material and placement of uncontrolled fill from undocumented sources is considered a *recognized environmental condition*.

The subject property was not identified in regulatory databases reviewed. The database report identified one offsite facility within the applicable ASTM minimum search distances for the following regulatory database listings: SWF/LF, VCP, and Brownfields. Based on regulatory information reviewed, distance, relative topographic relationship to the subject property, and/or current site observations, in our opinion the listings corresponding with the offsite facility identified in the regulatory records are not considered a *recognized environmental conditions* (RECs) relative to the subject property.

This assessment has revealed the following onsite *recognized environmental conditions* or *controlled recognized environmental conditions* in connection with the subject property:

• Current and historical operations associated the onsite placement and storage of soil, concrete, asphalt, and miscellaneous building material from undocumented sources, from about 1997 to present.

This assessment has revealed no evidence of offsite recognized environmental conditions or controlled recognized environmental conditions in connection with the subject property.

In our opinion, additional information is warranted in order to reduce uncertainty regarding the potential presence of petroleum or hazardous substances associated with or attributable to the identified *recognized environmental conditions*.

This summary is for convenience only and should not be relied upon without first reading the full contents of this report, including appendix materials.

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2.0 Introduction

S&ME, Inc. (S&ME) conducted a Phase I ESA for the approximately 43-acre property, referenced as the "Etowah Future Housing Site", located off County Road 802, in Etowah, McMinn County, Tennessee. The ESA was conducted using the *American Society for Testing and Materials (ASTM) E1527-13, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process and in accordance with S&ME, Inc. Proposal No. 41-1500356, dated September 10, 2015.*

2.1 Purpose

The Users of this report are the Southeast Tennessee Development District and the City of Etowah. The purpose of the ESA is to identify, pursuant to ASTM E 1527-13, recognized environmental conditions and controlled recognized environmental conditions in connection with the subject property. It is S&ME's understanding that this assessment was requested as part of an Environmental Protection Agency (EPA) Brownfield Assessment Grant.

ASTM defines the term *recognized environmental condition* (REC) as the presence or likely presence of hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. The term includes hazardous substances or petroleum products even under conditions in compliance with laws.

ASTM defines the term *controlled recognized environmental condition* (CREC) as "a *recognized environmental condition* resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls)".

ASTM defines the term *historical recognized environmental condition* (HREC) as a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls).

The terms do not include *de minimis* conditions that generally do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be *de minimis* conditions are neither *recognized environmental conditions* nor *controlled recognized environmental conditions*.

2.2 Detailed Scope of Services

2.2.1 *ASTM E1527-13*

S&ME's approach to performing this ESA consisted of four major tasks in accordance with ASTM Standard Practice E1527-13.

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<u>Task 1</u> - A review of reasonably ascertainable public records for the subject property and the immediate vicinity was conducted. This review was performed to characterize environmental features of the subject property and to identify past and present land use activities, on or in the vicinity of the subject property, which may indicate a potential for recognized environmental conditions. The review of the reasonably ascertainable public records included:

- 1. Review of federal, state, tribal, and reasonably ascertainable local public records for the subject property and immediate vicinity.
- 2. Review of one or more of the following standard sources: aerial photographs, fire insurance maps, tax files, building department records, zoning/land use records, street directories and topographic maps of the subject property and vicinity for evidence suggesting past uses that might have involved hazardous substances or petroleum products.
- 3. Review of land title records back to 1940, or first developed use whichever is earlier, as well as a copy of the current deed if the documents are provided to S&ME by the Phase I ESA User.

<u>Task 2</u> - A site reconnaissance was performed to identify visible signs of past or existing contamination on or adjacent to the subject property. This reconnaissance was also performed to evaluate evidence found in our public record review that might indicate activities resulting in hazardous substances or petroleum products being used or deposited on the subject property. The site reconnaissance included the following activities:

- A reconnaissance of the subject property and adjacent properties was performed to look for evidence of current and past property uses, signs of spills, stressed vegetation, buried waste, underground or above ground storage tanks, subsidence, transformers, or unusual soil discoloration which may indicate the possible presence of contaminants on the properties. Photographs are provided to document these conditions.
- 2. The exterior reconnaissance involved a viewing of the periphery of the subject property and a walk-through of accessible areas of the site interior including the exterior of on-site structures.
- 3. Areas of the subject property were photographed to document the current use(s) of the subject property, as well as conditions such as unusually discolored soil, stressed vegetation, or other significant features associated with the subject property.

<u>Task 3</u> – Interviews with past and present property owners (if available), operators and occupants as well as with appropriate local officials were conducted to consider any local knowledge of hazardous substances or petroleum products on the subject property or on adjacent properties.

<u>Task 4</u> - Report preparation.

2.2.2 Exclusions from and Additions to Scope of Services

Unless specifically authorized as an addition to the Phase I ESA work scope, the assessment did not include assessment of environmental conditions not specifically included in the ASTM E1527-13 standard including, but not limited to sampling of materials (i.e., soil, surface water, groundwater or air), or the assessment of business risk issues such as wetlands, lead in drinking water, asbestos containing materials, mold, fungi or bacteria in on-site buildings, regulatory compliance, cultural/historic risks, industrial hygiene, health/safety, ecological resources, endangered species, indoor air quality, vapor intrusion, radon or high voltage power lines.

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2.3 Significant Assumptions

Information obtained from the Client, the Client's representatives, individuals interviewed, and prior environmental reports was considered to be accurate unless S&ME's reasonable inquiries clearly revealed otherwise.

The groundwater within the local geologic province is typically confined to cracks and fissures in the limestone bedrock. The slope of the water table under static conditions (no pumping interference) often approximates the land surface topography. Thus, the interpreted groundwater flow direction is assumed to be approximately the same as the topography of the ground surface. Perennial surface waters (creeks, streams, rivers, ponds, etc.) are assumed to act as a discharge point for groundwater flow. Absolute flow direction cannot be determined without extensive investigation of depths to ground water at a particular site.

2.4 Limitations and Exceptions of Assessment

The Phase I ESA was conducted using ASTM E1527-13. The findings of this report are applicable and representative of conditions encountered at the property on the date of this assessment, and may not represent conditions at a later date. The review of public records was limited to that information which was available to S&ME at the time this report was prepared. Interviews with local and state government authorities were limited to those people whom S&ME was able to contact during the preparation of this report. Information was derived from "reasonably ascertainable" and "practically reviewable" sources in compliance with our understanding of the standards set forth by ASTM E1527-13.

Dense vegetation on portions of the property (northern half), which reduced access and visibility, is considered a limitation. No other limitations imposed by physical obstructions or other limiting conditions were encountered.

2.5 Special Terms and Conditions

This Phase I ESA was conducted in accordance with S&ME Proposal No. 41-1500356, dated September 10, 2015 authorized by Mr. Sam Saieed of the Southeast Tennessee Development District via email notice to proceed, dated September 13, 2018.

2.6 User Reliance

The resulting report is provided for the sole use of the Client. Use of this report by any third parties will be at such party's sole risk except when granted under written permission by S&ME. Any such authorized use or reliance by third parties will be subject to the same Agreement under which the work was conducted for the Client.

The additional party's use and reliance on the report will be subject to the same rights, obligations, and limitations imposed on the client by our Agreement, unless otherwise agreed. However, the total liability of S&ME to all parties of the Phase I ESA shall be limited to the remedies and amounts as provided in the Agreement as a single contract. The additional party's use and reliance on the report shall signify the additional party's agreement to be bound by the proposal and contract that make up the Agreement between S&ME and the Client.

ASTM E1527-13 states that an Environmental Site Assessment "meeting or exceeding" this practice and completed less than 180 days prior to the date of acquisition or intended transaction is presumed to be valid if the report is being relied on by the User for whom the assessment was originally prepared and the following components were completed: interviews, the regulatory review, site visit, and the declaration by the environmental professional

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responsible for the assessment. Based on this requirement, this report is presumed to be valid for 180 days after September 14, 2018.

3.0 General Site Description

3.1 Site Location

The subject property is located approximately 1,300 feet east of Highway 411, on the northeast corner of the intersection between County Road 802 and County Road 802, in Etowah, McMinn County, Tennessee. The approximate center of the subject property is located at 35.315687 latitude and -84.536983 longitude. The subject property is comprised of a single, irregularly shaped parcel, identified as Parcel No. 118 101.00. The location of the subject property is depicted on Figures 1 and 2 in Appendix I. A copy of the property card for the subject property parcel obtained from the State of Tennessee Real Estate Assessment Data website is included in Appendix IV.

3.2 Site and Vicinity Characteristics

The approximately 43-acre subject property is currently vacant, undeveloped land, with intermittent wooded and densely vegetated areas. An unimproved gravel and unimproved drive transects the property from generally east to west. The subject property is accessible from the south via County Road 802, and from the west via County Road 801. Land use on the immediately surrounding properties consists of single-family residential and undeveloped properties, with commercial properties located east of the subject property along the Highway 411 corridor.

4.0 User Provided Information

Certain information identified in ASTM E1527-13 was provided by the User of this report (Client) on a User Questionnaire. A copy of the User Questionnaire is included in Appendix IV.

4.1 Title Records

S&ME was requested by the Client to secure a chain-of-title report. S&ME engaged Environmental Data Resources (EDR) to complete a third-party search of title documents for the subject property. Title records were searched from January 1, 1940 to September 10, 2018. The ownership reported in the Chain-of-Title is identified as follows:

- City of Etowah (current owner) acquired the property in 1990 from Franklin M. Cantrell Jr., Robert W.
 Cantrell, Nancy Cantrell Dender, Carol E. Cantrell, and Mintie C Wilson.
- F.M. Cantrell and M.P. Cantrell acquired the property from H.E. Kinder in 1942.
- Prior deed was recorded before 1940.

A copy of the Chain-of-Title report is included in Appendix III.

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4.2 Environmental Liens or Activity and Use Limitations

Review of Activity and Use Limitations (AULs) and environmental liens by the environmental professional can help in determining if a *recognized environmental condition* is associated with the property. AULs can include both institutional and engineering controls, and often are recorded in land title records in the restrictions of record rather than a typical chain-of-title or title abstract. The User has the responsibility of checking land title and judicial (federal, state, tribal and local) records.

The client requested that S&ME acquire a lien/AUL search for the subject property. S&ME obtained an environmental lien/AUL search from Environmental Data Resources (EDR). No environmental liens or AULs were reported in the lien/AUL search. A copy of the environmental lien/AUL search from EDR is included in Appendix III.

4.3 Specialized Knowledge

The Client indicated that they do not have specialized knowledge that is material to *recognized environmental* conditions identified in connection with the subject property.

4.4 Commonly Known or Reasonably Ascertainable Information

No commonly known or reasonably ascertainable information about the subject property within the local community that was material to *recognized environmental conditions* in connection with the subject property was reported to S&ME by the Client.

4.5 Valuation Reduction for Environmental Issues

The Client indicated that they were not aware of a valuation reduction for the subject property due to environmental issues.

4.6 Owner, Property Manager and Occupant Information

According to the State of Tennessee Real Estate Assessment Data website, the subject property is owned by The City of Etowah. S&ME interviewed the property owner representative and Key Site Manager. Interview information is discussed in Section 7. The property is currently vacant; therefore, no occupant was identified.

4.7 Reason for Performing the Phase I ESA

It is our understanding that the Phase I ESA is being conducted as part of an EPA Brownfield Assessment Grant that was received by Southeast Tennessee Development District. The purpose of the ESA is to identify, pursuant to ASTM E1527-13, recognized environmental conditions in connection with the property. S&ME assumes that this Phase I ESA is being performed to assist a prospective purchaser in qualifying for the *innocent landowner*, contiguous property owner, or bona fide prospective purchaser defenses to CERCLA liability.

4.8 Other

No other information pertinent to the Phase I ESA was provided by the Client.

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5.0 Records Review

This section summarizes records obtained and reviewed to help identify *recognized environmental conditions* in connection with the subject property.

5.1 Standard Environmental Record Sources

S&ME reviewed selected federal and state regulatory lists in an attempt to identify recorded information concerning environmental impacts or conditions or concerns associated with the subject property. S&ME reviewed the regulatory lists as obtained from Environmental Data Resources (EDR). The database report is attached as Appendix II, and includes a listing of the databases; search distances, an explanation of each database, and figures depicting the approximate locations of regulated facilities in the vicinity of the subject property.

Regulatory listings are limited and include only those facilities or incidents that are known to the regulatory agencies at the time of publication, in the process of evaluation for potential contamination, or to store/generate potentially hazardous substances, waste, or petroleum.

The listings of concern, based on database information, distance and topography, are discussed in the following table.

Facility Name / EDR	Location & Distance / Direction	Record	Comment
ID			
Thompson Environmental Services, Inc. / EDR ID: A1, A2	1447 South Tennessee Avenue / Approximately 1,263 feet east of the subject property, topographically lower and down gradient	SWF/LF, VCP, BROWNFIELDS	With EDR report lists the facility's status relative to the SWF/LF listing as "inactive", and specifies the activity as "dewatering, solidification, and stabilization of non-hazardous municipal and industrial waste. Relative to the VCP listing, The EDR report lists the facility status as "withdrawn". Based on distance, downgradient location relative to the subject property, and information in the EDR report, this facility is not considered a suspect recognized environmental condition in relation to the subject property.

Table 5-1 – Database Results Summary Table

Note: The distances from subject property presented in the table are based on measurements calculated via GoogleEarth and may vary slightly from distances referenced in the database report.

Five (5) orphan listings also were identified in the EDR Radius Map Report. Orphan sites are facilities that were unable to be mapped adequately due to poor address information. Based upon S&ME's area reconnaissance, distances of at least one-half mile, the type of regulatory listings identified for the remaining facilities, and conditions typical of the identified facility activities, S&ME does not consider the remaining orphan sites identified in the EDR Report to be suspect *recognized environmental conditions* to the subject property.

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The EDR report also includes a ZIP Code Scan Report, which lists regulated facilities within a prescribed ZIP code. Facilities identified in the ZIP Code Scan Report, and not previously discussed in the Table above, did not appear to be present within minimum search distances. Based upon S&ME's area reconnaissance, distances of at least one-half mile, the type of regulatory listings identified for these facilities, and conditions typical of the identified facility activities, S&ME does not consider the facilities identified in the Zip Code Scan Report to be suspect recognized environmental conditions to the subject property.

5.1.1 Tennessee Department of Environment and Conservation File Review

Based on information contained in the EDR report and/or topographic map interpretation, the environmental professional in charge of this project determined that a TDEC file review for the identified facilities in the regulatory database review was not necessary.

5.2 Additional Environmental Record Sources

5.2.1 EDR Supplementary Sources

The EDR report also includes additional environmental records not listed among the standard federal, state and tribal databases, such as historical auto stations, manufactured gas plants, and dry cleaners. No additional records were identified by the EDR supplementary sources review within applicable search radii.

5.2.2 Tribal Record Sources

The EDR Radius Map Report with GeoCheck did not reveal listings of tribal environmental records. In addition, S&ME reviewed the http://www.ncsl.org/research/state-tribal-institute/list-of-federal-and-state-recognized-tribes.aspx website which identifies present-day, active Native American tribes of Tennessee. According to information obtained from this website, no federally-recognized tribes are currently located in McMinn County, Tennessee.

5.2.3 Other Record Sources

No other record sources were reviewed as part of this assessment.

5.3 Physical Setting Sources

Physical setting sources specified in Section 14.0 of this report were reviewed to provide information about the geology and hydrogeology of the area of the subject property.

Surface Drainage and Soil

S&ME reviewed the United States Geological Survey (USGS) 7.5-minute series Etowah, Tennessee topographic quadrangle map, dated 1976 (photo revised from 1967), to examine the topography and drainage of the subject property and vicinity. As depicted on Figure 1, Appendix I, an unnamed tributary to Cane Creek (depicted as a blue line on the topographic map), begins near the middle of the subject property and travels generally to the south before exiting the southern boundary of the subject property. Areas of the subject property north and west of the depicted stream appear to slope toward the stream, while the easternmost portions of the property appear to

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slope to the east toward another unnamed tributary to Cane Creek, located approximately 600 feet east of the subject property. Topography in the vicinity of the subject property generally appears to slope away from the subject property, with the exception of some properties to the north which slope toward the subject property. The average surface elevation at the subject property is approximately 850 feet above the National Geodetic Vertical Datum (NGVD) as presented on the topographic map reviewed, with a topographic high near the western boundary of the property. Elevations range from a high of approximately of 900 feet on the western side of the property, to a low of approximately 820 feet on the eastern side. Surface drainage on the subject property would be expected to generally flow toward the onsite unnamed tributary, or to the east. Based on observations during the site reconnaissance, it appears that surface drainage from north adjoining residential properties has the potential to flow onto the subject property.

Review of the USDA NRCS web soil survey website indicated that the subject property was mapped as being predominantly underlain by two soil types: Coghill-Apison complex (5 to 12 percent slopes) and Corryton-Needmore complex (2 to 5 percent slopes). Both soil complexes are typically deep, well-drained soils. The risk of corrosion to steel and concrete in both onsite soil types is rated as moderate. A site specific investigation, which was beyond the scope of services for this assessment, would be required to determine the specific characteristics of the soil at the subject property.

Bedrock

Etowah, Tennessee, is located in the Appalachian Valley and Ridge Physiographic Province. The Province is characterized by elongated, northeasterly-trending ridges formed on highly resistant sandstones and shales. Between ridges, broad valleys and rolling hills are formed primarily on less resistant limestones, dolomites and shales.

Published geologic information indicates that the site is underlain by Athens shale. Athens shale is a medium to dark gray calcareous, graptolitic shale, made up of calcareous gray sandstone, siltstone, and locally fine-pebble quartz conglomerate, with nodules of shaly limestone.

Groundwater

The soils in East Tennessee, including the site, generally are of insufficient thickness or permeability to provide a drinking water source. Rural residences may obtain drinking water from wells extending into the limestone bedrock at depths of 100 feet or more. Perched ground water is often trapped at the soil/rock interface, but is generally of insufficient quantity or quality for domestic purposes. It is important to note that groundwater in the Valley and Ridge Physiographic Province is most often confined to cracks and fissures in the limestone bedrock. Therefore, absolute flow direction cannot be determined without extensive investigation of depths to ground water at a particular site.

Shallow groundwater generally flows in directions sub-parallel to the ground surface slopes and under the influence of gravity toward points of discharge such as creeks, swamps, drainage swales, or pumped groundwater wells. Based upon review of the topographic map, it appeared that the groundwater flow direction in the uppermost water-bearing unit of the subject property is generally to the south, toward Cane Creek. As noted, the determination of actual groundwater flow direction requires the collection of site-specific groundwater elevation data, which is beyond the scope of this assessment.

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5.4 Historical Use Information on the Property

As presented in Section 14, S&ME reviewed the following historical resources to determine the historical use of the subject property:

- Aerial photographs from 1975, 1977, 1988, 1992, 1997, 2008, 2012, and 2016 (included in Appendix III).
- City directories from 1992, 1995, 2000, 2005, 2010, and 2014 (included in Appendix III).
- Historical topographic maps from 1886, 1892, 1895, 1901, 1935, 1943, 1944, 1967, 1975, 2003, and 2013 (included in Appendix III). The 1980 USGS 7.5 Minute Series topographic map for the Etowah, TN Quadrangle is included as Figure 1, Appendix I.

The results of the historical review of the subject property are presented in the following table.

Summary of Historical Property Use Current Use / Location **Prior Use** Source Comments Vacant property / County A, T, CD, I Land disturbance associated with Road 802; Used as fill site filling and stock-piling inert materials Vacant, land from at least and storage of inert was observed in historical aerial 1975 to about 2008. materials by City of Etowah photographs, and is considered a since about 2008 suspect recoanized environmental Southeast portion of the condition based on the absence of property, possibly source or placement documentation residentially developed; in and the potential for petroleum and at least 1935 other hazardous substances associated to have be inadvertently placed onsite. No other historical uses of concern were identified

Table 5-2 - Historical Property Usage of Subject Property

A - Aerial Photographs, T - Topographic Maps, CD - City Directories, I - Interviews

The standard historical sources listed below were not reviewed. It is S&ME's opinion that these sources would not provide additional meaningful and complete information, or the sources were not considered to be practically reviewable or reasonably ascertainable.

- Historical Fire Insurance Maps (not available)
- Building Department records (not available)
- Zoning/land use records

5.5 Historical Use Information on Adjoining Properties

Nearby property usage could potentially impact the surface and subsurface at the subject property. Historical information including city directories, aerial photographs, topographic maps, and regulatory records were reviewed to assess off-site historical land uses. Our findings are presented in the following table.

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Table 5-3 - Historical Adjoining Land Usage and Surrounding Uses of Concern

Current Use / Location	Prior Use	Source	Comments
North Adjoining: Single-family residential properties / addressed on County Road 801, Johnson Street, and Carroll Street; from at least 1975 to present.	Residential and/or undeveloped from at least 1935 to 1975.	A, T, CD	No environmental property uses of concern were identified at these locations.
East Adjoining: Single-family residential and undeveloped properties / addressed on Pennsylvania Avenue, 16 th and 17 th Streets, and County Road 802; from at least 1975 to present	Residential and/or undeveloped from at least 1935 to 1975.	A, T, CD	No environmental property uses of concern were identified at these locations.
South Adjoining: (beyond County Road 802) Residential and Undeveloped land / addressed on County Roads 801 and 802; from at least 2008 to present.	Undeveloped land; from at least 1935 to 1997	A, T, CD	No environmental property uses of concern were identified at these locations.
West Adjoining: (beyond County Road 801) Residential and Undeveloped land / addressed on County Road 801; from at least 2008 to present.	Undeveloped land; from at least 1935 to 1997	A, T, CD	No environmental property uses of concern were identified at this location.

A - Aerial Photographs, T - Topographic Maps, CD- City Directories,

Based on information obtained by S&ME, other than the historical land uses of adjoining properties identified in the table above or previously discussed, prior historical adjoining property uses identified are not considered a suspect *recognized environmental condition* in relation to the subject property.

6.0 Site Reconnaissance

6.1 Methodology and Limiting Conditions

The purpose of the site reconnaissance is to "obtain information indicating the likelihood of identifying *recognized environmental conditions* in connection with the subject property". Mr. Barry Burnette of S&ME physically observed accessible areas of the subject property on September 18, 2018. Additionally, the periphery of the subject property was visually and/or physically observed, and the subject property was viewed from adjacent public thoroughfares. Dense scrub vegetation located on the property limited access and visual assessment of the ground surface in several areas of the subject property, predominantly if the western, and northeastern regions. Areas of limited access and visibility are depicted on Figure 3 in Appendix I. No other limiting conditions were encountered during site reconnaissance. Sources reviewed indicated the northern portions of the property have been used in the past by the City of Etowah for disposal of brush, soil, and concrete; therefore, this limiting condition is considered significant.

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6.2 General Site Setting

6.2.1 *Current Use(s) of the Subject Property*

At the time of S&ME's site visit, the subject property was vacant. Based on information provided by the Key Site Manager, we understand that the subject property is used by the City of Etowah to dispose of brush, concrete and asphalt debris, and excess soils from various City and utility projects, and to store used tires until disposal. Areas of observed current and past material disposal on the property is depicted on Figure 3 in Appendix I. The remaining portions of the property consisted of densely vegetated land. Observations noted during the site reconnaissance are depicted on Figure 2, in photographs provided in Appendix I, and summarized in the following table:

Table 6-1 - General Property Observations

Description	Reported or Observed On-site (Y/N)	Comments
Hazardous Substances and Petroleum Products in Connection with Identified Uses	N	
Hazardous substances and Petroleum Products Containers not in Connection with Identified Uses	N	
Storage Tanks	N	No evidence of underground or aboveground storage tanks was observed.
Oil/Water Separators	N	
Strong, Pungent, or Noxious Odors	N	
Pools of Liquid	N	
Drums/Totes	N	
Unidentified Substance Containers	N	
Potential Polychlorinated Biphenyls (PCB)-Containing Equipment	N	
Contracted Maintenance Services	N	
Utilities and Storm Water Management	Y	Water, sewer, and electric services are available at the subject property through Etowah Utilities. However, no utilities are connected as the site is unimproved. Storm water on the majority of the subject property would be expected to flow generally to a drainage that begins near the middle of the property and travels to the south before exiting the property. Storm water from eastern portions of the site is expected to flow to the east. Storm water from adjoining residential properties to the north could drain onto the subject property.
Other	N	

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6.2.2 *Past Use(s) of the Subject Property*

With the exception of piles of soil, concrete, asphalt, and brush that were covered by vegetation, no obvious evidence of previous land uses were observed on the subject property during site reconnaissance activities. See Section 5.4 for additional information about the past use of the subject property.

6.2.3 Current Use(s) of Adjoining and Surrounding Properties

The current uses of the adjoining properties were identified to the extent that they were visually observed from the subject property during our field reconnaissance, or were identified in interviews or in the records review. Descriptions of adjoining properties are provided below:

- North

 The subject property is bordered to the north by residential properties, followed by additional
 residential properties. The current uses of the properties adjoining to the north are not likely to represent
 recognized environmental conditions in connection with the subject property.
- **East** The subject property is bordered to east by undeveloped wooded and residential properties, followed by additional residential properties, with commercial properties located along the Highway 411 corridor beyond. The current uses of the properties adjoining to the east are not likely to represent *recognized environmental conditions* in connection with the subject property.
- **South** The subject property is bordered to the southeast by County Road 802, followed by undeveloped and residential properties. The current uses of the properties adjoining to the south are not likely to represent recognized environmental conditions in connection with the subject property.
- West The subject property is bordered to the west by County Road 801, followed by residential and
 undeveloped properties. The current uses of the properties to the west are not likely to represent recognized
 environmental conditions in connection with the subject property.

6.2.4 Past Use(s) of Adjoining and Surrounding Properties

No obvious evidence of previous land uses was observed on adjoining and surrounding properties through observations made during the site visit. See Section 5.5 for additional information about the past use of the adjoining properties.

6.2.5 Geologic, Hydrogeologic, Hydrologic, and Topographic Conditions

No specific geologic features were noted on the subject or adjoining properties during site reconnaissance activities. Topography on the majority of subject property generally slopes toward an unnamed tributary to Cane Creek, which begins near the middle of the subject property and flows generally to the south about 500 feet before exiting the southern boundary of the subject property. Topography in the region of the subject property north and west of the depicted stream appears to slope toward the stream, south and east respectively. Topography in the eastern areas of the subject property appears to slope to the east away from the subject property. Groundwater would be expected to flow in a corresponding direction as topographic slope on the subject property. Surface drainage on the subject property would be expected to flow toward the onsite unnamed tributary to Cane Creek. Based on observations during the site reconnaissance, it appears that surface drainage from some north adjoining properties has the potential to flow onto the subject property. Surface

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drainage from the adjoining properties to the south, west, and east would not be expected to flow onto the subject property.

6.2.6 Description of Structures and Roads

There are currently no structures on the subject property. An unimproved, dirt and gravel access road transects the property generally from east to west, from 17th Street to County Road 801 respectively. The subject property also can be accessed from the south via County Road 802.

6.2.7 Potable Water Supply and Sewage Disposal System

Water and sewer service is available at the subject property through Etowah Utilities. No evidence of septic systems was observed or reported on the subject property. The subject property was residentially developed in the past. Additional discussion is provided in Table 6.2, below.

6.3 Exterior Observations

Exterior observations made during the site reconnaissance are summarized in the following table:

Table 6-2 - Exterior Observations

Description	Reported or Observed On-site (Y/N)	Comments
Pits, Ponds, Lagoons and Surface Waters	Y	A drainage feature and area of standing water was observed on the subject property. It appeared the drainage feature began in the southern half of the subject property, near the middle, and exited the southern boundary of the property via culvert beneath County Road 802. The area of standing water (possible wetland) was observed in the southern portion of the property, up gradient of the culvert beneath County Road 802.
Surface Water Discoloration, Sheen, or Free Product	N	
Storm Water Retention or Detention Ponds	N	
Stained Soil or Pavement	N	
Disturbed Soil	Y	Several areas of disturbed soil were observed on the subject property. It appears the areas of disturbed soil were associated with fill material and/or brush that had been previously spread out or pushed up with heavy equipment in the areas observed.
Stressed Vegetation	N	

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Description	Reported or Observed On-site (Y/N)	Comments
Solid Waste	Y	Numerous piles of brush were observed on the subject property. Additionally, a lesser amount of soil, concrete, asphalt, tires, and miscellaneous building material piles were also observed on the property. Many other older piles, of which the contents were unable to be observed due to dense vegetation growing on them, also were observed on site. Interview information obtained from the Key Site Manager, Mr. Billy Ingram, indicated that the City of Etowah has used the subject property to dispose of the materials since at least 2008. Mr. Ingram stated that in some areas the material piles had been pushed out as fill to make room for additional material. The presence of onsite disposal of soils, concrete, asphalt and building materials of unknown origin, and their use as onsite fill material is considered a suspect recognized environmental condition.
Process/Industrial Wastewater Discharge	N	
Wells	N	None observed or reported to be present
Septic Systems	N	None observed or reported to be present. Interview information indicates that sewer service was not available at the property until the late 1990s. Historical sources reviewed indicate what appear to be three residential structures on the southeast portion of the property in at least 1935. They are not depicted on the subsequent topographic maps. Given that the date of residential use predates available sewer service, it is likely the residential structures could have utilized a septic system. Given the suspected domestic use, the potential onsite septic systems would not be considered a suspect recognized environmental condition. However, if future development of the property encounter septic systems they should be properly closed following applicable regulations.
Other	N	

6.4 Interior Observations

No structures are currently present on the subject property.

7.0 Interviews

ASTM E1527-13 requires that a reasonable attempt be made to interview past and present owners, operators, and occupants who are likely to have material information about uses and conditions that could present a suspect

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recognized environmental condition to the subject property. ASTM E1527-13 requires that the owner or its representative be asked to identify a person with good knowledge of the uses and physical characteristics of the subject property who is defined as the Key Site Manager. The interviews were conducted in person, by telephone, or in writing and are discussed in the following sections. Copies of the Record of Communications are included in Appendix VI.

7.1 Interview with Past and Present Owners

S&ME interviewed Ms. Tina Tuggle, City Manager of Etowah, and a representative of the current owner of the subject property on September 21, 2018. Ms. Tuggle stated she has been familiar with the property for about two years. Ms. Tuggle stated that the City has owned the property since 1990, and had purchased it from the Cantrell Family. Ms. Tuggle stated that she had heard the property was previously farm land with possibly a few residential and/or barn structures on it. Ms. Tuggle stated that the property was currently used by the City of Etowah as a brush disposal site. She stated some soils and possibly some building materials had also been disposed of onsite, but that she did not know the origin of the materials. She said it was possible that some building materials from the old fire station that was recently demolished had been taken to the site. Ms. Tuggle stated that she was not aware of any site specific property uses of concern; or any use, storage, or disposal of hazardous materials or petroleum products on the property.

When asked specifically if she was aware of any environmental liens, cleanups or deed restrictions associated with the property, Ms. Tuggle stated she was not. No information regarding AULs or governmental notification relating to past or recurrent violations of environmental laws with respect to the subject property were reported to S&ME during this interview.

7.2 Interview with Key Site Manager

S&ME interviewed Mr. Billy Ingram, Director of Public Works for the City of Etowah, by phone on September 21, 2018. Mr. Ingram stated that he has been in his position for eleven years and has been familiar with the subject property since that time. He indicated that the property was currently owned by the City of Etowah, and had been purchased from the Cantrell family in about 1990. Mr. Ingram stated that he thought since around 2008, the City of Etowah has used the property as primarily a brush disposal site, though some soil, concrete, asphalt, and miscellaneous building materials have been disposed of onsite. When asked specifically who had brought these items to the property and if there were records for where the materials originated, Mr. Ingram stated that to his knowledge only four entities had used the site for disposal: The City of Etowah (Public Works); Etowah Utilities; the McMinn County Road Department; and the Tennessee Department of Transportation (TDOT). He stated that to his knowledge there were no records relative to the material origins prior to being brought to site, and no records relative to quantities that had been brought onsite. Mr. Ingram also stated that he thought TDOT had also used the site as a soil borrow site during a widening of Highway 411 sometime in the early 1990's. When asked specifically about a pile of tires observed on the property. Mr. Ingram stated the tires were brought to the site by the City of Etowah and were just being stored there until they could be properly disposed.

Mr. Ingram stated he was not aware of any past onsite use, storage, or disposal of hazardous substances or petroleum products on the subject or adjoining properties. Mr. Ingram stated that he had no knowledge of aboveground or underground storage tanks ever having been located on the property, and he had no knowledge of any past site specific property uses of concern.

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When asked specifically if he was aware of any environmental liens, cleanups or deed restrictions associated with the property, Mr. Ingram stated he was not. No information regarding AULs or governmental notification relating to past or recurrent violations of environmental laws with respect to the subject property were reported to S&ME during this interview.

7.3 Interview with Occupants

The subject property structure was vacant at the time of our assessment.

7.4 Interview with Local Government Officials

S&ME contacted Mr. Adam Hafley, Fire Chief with the City of Etowah Fire Department regarding records of hazardous material responses at the subject property. Mr. Hafley stated based review of available records, the Department has not responded to any hazardous incidents at the subject property, or hazardous materials responses to adjoining properties. Chief Hafley stated that searchable records only went back to 2012 but that he has been with the Fire Department for twelve years and that he had no memory of any hazardous material calls to the subject property.

S&ME contacted Mr. Mike Cheek, Wastewater & Water Superintendent of Etowah Utilities, on September 19, 2018 to inquire about when sewer service became available at the subject property. Mr. Cheek stated that sewer service became available in the 1990's. When asked specifically if the Etowah Utilities would have any information regarding the location or the historical removal/abandonment of septic systems, Mr. Cheek stated they would not.

S&ME contacted the TDEC-Division of Remediation (DoR) and Drycleaner Environmental Response Program (DCERP), via online public records request on September 19, 2018, to inquire if the subject property or nearby properties were identified in their records as a remediation site. DoR indicated in an email response that they were aware of two DoR sites within a one mile radius of the subject property. DoR supplied addresses, along with latitudes and longitudes for the identified sites. Based on relative distance, lower topographic elevation and/or, inferred gradient relative to the subject property, the offsite facilities identified in DoR records are not considered suspect *recognized environmental conditions* in relation to the subject property. A copy of the email request and responses are included in Appendix V.

7.5 Interviews with Others

No other interviews were conducted.

8.0 Vapor Encroachment Assessment

8.1 Vapor Assessment Factors

Data obtained from the Phase I ESA record review, site reconnaissance, and interviews were used in conjunction with the protocol established by ASTM E2600-15 to assess vapor encroachment on the subject property. Based on data collected, the following considerations are defined for the subject property to facilitate assessment of a vapor encroachment condition (VEC) as defined by ASTM E2600-15.

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Area of concern: The area of concern (AOC) to examine with respect to possible sources of contaminant vapors is set at 0.10 mile for petroleum hydrocarbon vapors and 0.30 mile for other chemicals of concern. These are the maximum limits recommended by ASTM E2600-15 and have been established as an approximate minimum search direction in any direction from the subject property boundary. The distances have been reduced for groundwater flow direction as allowed by ASTM E2600-15. For this assessment, the AOC will be limited to the subject property and adjoining properties located 0.10 mile for petroleum hydrocarbon vapors and 0.30 mile for other chemicals of concern west of the subject property. Properties to the south of the subject property generally are inferred downgradient with respect to the presumed groundwater flow direction and need only be considered within 100 feet of the subject property boundary.

Existing and planned use of the subject property: The subject property is currently vacant. We understand residential use is being contemplated, but that there are no specific project plans or conceptual site designs.

Existing and planned structures on the subject property: Currently, there are no structures on the subject property. Specific information, such as drawings or conceptual site plans, regarding future property improvements was not provided by the owner or client.

Current use of the area surrounding the subject property: Adjoining properties are currently residential and/or undeveloped. The nearest commercial properties are located approximately 1,900 feet east of the subject property, along the Highway 411 corridor, down gradient of the subject property.

Governmental records for the subject property and AOC: The subject property was not identified in regulatory databases reviewed. The offsite facilities identified within the AOC in regulatory database findings are discussed in Table 8.1 below.

Sources of chemicals that could potentially migrate through the subsurface as vapors: Based on facilities identified within the AOC for the subject property, chemicals identified that could potentially migrate through the subsurface as vapors include both non-petroleum and petroleum products.

Physical setting: Topography on the majority of subject property generally slopes toward an unnamed tributary to Cane Creek, which begins near the middle of the subject property and travels generally to the south before exiting the southern boundary of the subject property. Areas of the subject property north and west of the depicted stream appear to slope toward the stream. Eastern areas of the subject property appear to slope to the east away from the subject property. Groundwater would be expected to flow in a corresponding direction as topographic slope on the subject property. It appears that surface drainage from some north adjoining properties has the potential to flow onto the subject property. Surface drainage from the properties to the south, east and west would not be expected to flow onto the subject property.

Natural and man-made preferential pathways for vapors: Water, storm, natural gas, and sewer lines are likely present north and east adjacent to the subject property. Piping trenches and associated pipe bedding may act as a preferential pathway for vapor migration. Factors relating to preferential pathways have not been considered as a basis to reduce the approximate minimum search direction.

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Specialized or commonly known information possessed by the User: The User did not identify specialized knowledge relative to environmental concerns regarding the subject property. Other than the City of Etowah using the property to dispose of brush, concrete, asphalt and soils, the User provided no commonly known information concerning the subject property.

8.2 Vapor Assessment Results

Data obtained from the regulatory database search, review of historical sources, site reconnaissance and interviews were used in conjunction with the protocol established by ASTM E2600-15 to assess vapor encroachment on the subject property. Based on our review of information collected as part of the Phase I ESA process, the subject property was identified as a potential vapor contaminant source, as a result of the unknown origin of soil disposal/fill onsite. Potential sources from facilities located offsite within a defined AOC of 1/10-mile for petroleum products or 1/3-mile for other chemicals of concern were not identified.

Potential off-site contaminant sources were evaluated with respect to the process, screening distances, type of contaminant, and known or assumed groundwater flow direction. The offsite facilities/properties listed in Table 2 were identified within the AOC.

Contaminant Distance, direction, and Contaminant Vapor Encroachment groundwater flow direction (with Condition Source Type and Determination respect to nearest subject property Screening boundary) Distance Based on potential that soils were impacted by Onsite soil Petroleum and petroleum products or disposal/fill placement from Non-Petroleum other hazardous Subject property substances prior to onsite undocumented placement, a sources **VEC** exists 1447 South Tennessee Avenue / Based on distance and Thompson Petroleum and Environmental Approximately 1,263 feet east of the inferred hydrologic Non-Petroleum relationship, a Services, Inc. subject property, topographically (100 feet) lower and down gradient **VEC does not exist** EDR ID: A1, A2

Table 8-1 - Identified Potential Contaminant Sources

Based on the processes described herein, the following conclusions were drawn from this VES:

A <u>VEC exists</u> on the subject property from onsite potential contaminant source(s) reviewed in conjunction with the Phase I ESA.

A <u>VEC does not exist</u> on the subject property from offsite potential contaminant source(s) reviewed in conjunction with the Phase I ESA.

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9.0 Findings

We have performed this Phase I ESA in general conformance with the scope and limitations of ASTM Standard Practice E1527-13 for the approximately 43-acre subject property, located northeast adjacent to the intersection of County Roads 801 and 802, in Etowah, McMinn County, Tennessee, and referenced as the Etowah Future Housing Site. The following findings summarize known or suspect environmental conditions associated with the property including *recognized environmental conditions*, controlled *recognized environmental conditions*, historical *environmental conditions* and *de minimis* conditions.

9.1 On-Site Findings

Based on the information collected as part of the Phase I ESA process, the following known or suspect onsite recognized environmental conditions associated with the subject property, including controlled recognized environmental conditions, historical recognized environmental conditions, de minimis conditions, and/or other environmental conditions were identified:

 Current and historical operations associated the onsite placement and storage of soil, concrete, asphalt, and miscellaneous building material from undocumented sources, from about 1997 to present..

9.2 Off-Site Findings

Based on the information collected as part of the Phase I ESA process, no known or suspect offsite *recognized* environmental conditions associated with the subject property, including controlled recognized environmental conditions, historical recognized environmental conditions, de minimis conditions, and/or other environmental conditions were identified.

10.0 Opinion

Based on the information obtained by S&ME to date, the following summarizes S&ME's opinion of the impact on the subject property of known or suspect *recognized environmental conditions* identified in S&ME's findings (Section 9.0) and the environmental professional's rationale for concluding that a condition is currently a *recognized environmental condition, controlled recognized environmental condition, historical recognized environmental conditions, de minimis* condition, or not a *recognized environmental condition*.

10.1 On-Site Opinions

Based on the information obtained by S&ME to date, opinions on known or suspect onsite *recognized environmental conditions* associated with the subject property, including *controlled recognized environmental conditions*, *historical recognized environmental conditions*, *de minimis* conditions, and/or other environmental conditions identified in Section 9.1 are as follows:

 Current and historical operations associated the onsite placement and storage with of soil, concrete, asphalt, and miscellaneous building material disposal and fill from undocumented sources, from about 1997 to present. Observations during site reconnaissance indicate both recently placed piles and piles covered with dense vegetation indicating past use. Interview information from the

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current subject property site manager and historical sources reviewed indicates that the City began using the site for disposal purposes in around 2008. Interview information did not establish the origin of the material piles and fill observed on the subject property, or quantities placed as fill. It is not known whether other materials are present in the piles or fill, but not readily observable. Given the duration of use for disposal, unknown origin of the observed materials disposed of onsite, and the potential that possible contaminants associate with the placed material has impacted the subsurface. In addition, there is the potential that other unknown materials not readily observable in piles (due to dense vegetation or as placed fill) are present. As such, in our opinion, the stockpiled soil and soil commingled with building debris and fill of unknown origin are considered *recognized environmental condition*, which would also represent a *vapor encroachment condition*.

10.2 Off-Site Opinions

Based on the information obtained by S&ME to date, no known or suspect offsite recognized environmental conditions associated with the subject property, including controlled recognized environmental conditions, historical recognized environmental conditions, de minimis conditions, and/or other environmental conditions were identified.

10.3 Data Gaps

The following data gaps were encountered:

Failure to document property use in approximately 5-year intervals back to 1940 or first development.

Considering the history of land use as documented on available historical sources reviewed, as well as current site findings, this data gaps is not considered to be significant to our ability to identify *recognized environmental conditions* in connection with the subject property.

11.0 Conclusions

We have performed this Phase I ESA in conformance with the scope and limitations of ASTM E1527-13 for the approximately 43-acre property, referenced as the Etowah Future Housing Site, located on the northeast corner of the intersection between County Road 801 and 802, in Etowah, McMinn County, Tennessee. Exceptions to or deletions from this practice are described in Section 2.4 of this report.

This assessment has revealed the following onsite *recognized environmental recognized environmental conditions* or *controlled recognized environmental conditions* in connection with the subject property:

 Current and historical operations associated the onsite placement and storage with of soil, concrete, asphalt, and miscellaneous building material disposal and fill from undocumented sources, from about 1997 to present.

This assessment has revealed no evidence of offsite recognized environmental recognized environmental conditions or controlled recognized environmental conditions in connection with the subject property.

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In our opinion, additional information is warranted in order to reduce uncertainty regarding the potential presence of petroleum or hazardous substances associated with or attributable to the identified *recognized environmental conditions*.

12.0 Deviations

S&ME, Inc. has endeavored to perform this Phase I ESA in general conformance with our understanding of the scope and limitations of ASTM Standard Practice E1527-13 without deviation.

13.0 Additional Services

No additional services were performed for this Phase I ESA.

14.0 References

- Etowah, TN Quadrangle, U.S. Geological Survey (USGS) 7.5 minute series Topographic Map, dated 1975;
- State of Tennessee Division of Geology Map East-Central Sheet, dated 1966;
- Review of the Web Soil Survey website http://websoilsurvey.sc.egov.usda.gov;
- State of Tennessee, Real Estate Assessment Data website, http://www.assessment.cot.tn.gov;
- EDR-Radius Map with GeoCheck, *Etowah Future Housing Site*, *County Road 802*, *Etowah*, *TN 37331*, Inquiry Number 5424177.2s, dated September 14, 2018;
- Aerial photograph obtained from GoogleEarth dated 2010, 2015, 2017, and 2018;
- Aerial photographs obtained from EDR, dated 1975, 1977, 1988, 1992, 1997, 2008, 2012 and 2016;
- Historical Topographic maps for subject property obtained from EDR, dated 1886, 1892, 1895, 1901, 1935, 1943, 1944, 1967, 1975, 2003, and 2013;
- EDR-City Directory Image Report dated September 17, 2018, for coverage years 1992, 1995, 2000, 2005, 2010, and 2014;
- EDR Property Tax Map Report, dated September 14, 2018;
- EDR 1940 Chain of Title Report, dated September 17, 2018;
- EDR Environmental Lien and AUL Search, dated September 17, 2018;
- EDR Building Permit Report, dated September 14, 2018;
- Review of the website http://www.ncsl.org/research/state-tribal-institute/list-of-federal-and-state-recognized-tribes.aspx;
- Interview with the subject property owner representative, Mrs. Tina Tuggle, City Manager, City of Etowah;
- Interview with Key Site Manager, Mr. Billy Ingram, City of Etowah Public Works;
- Interview with Fire Chief Mr. Adam Hafley, City of Etowah Fire Department;
- Interview with Mr. Mike Cheek, with Etowah Utilities;

15.0 Signature(s) of Environmental Professional(s)

"I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in §312.10 of 40 CFR 312" and I have the specific qualifications based on education,

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training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

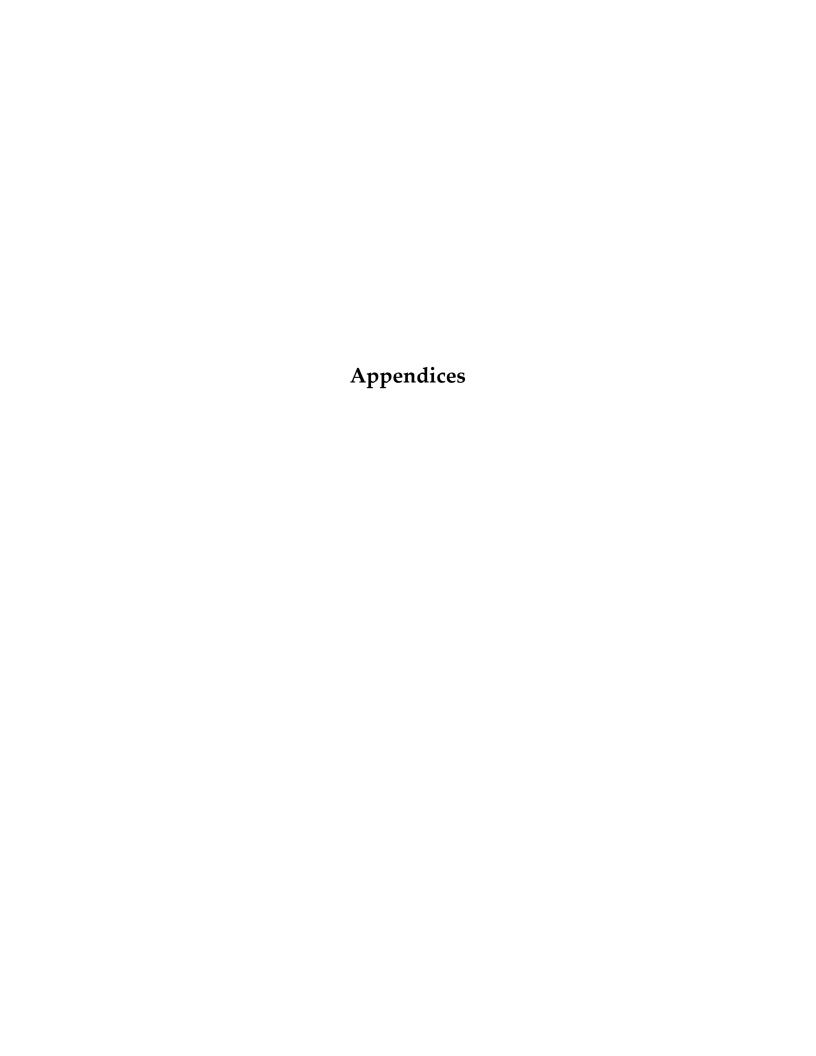
F. Barry Burnette

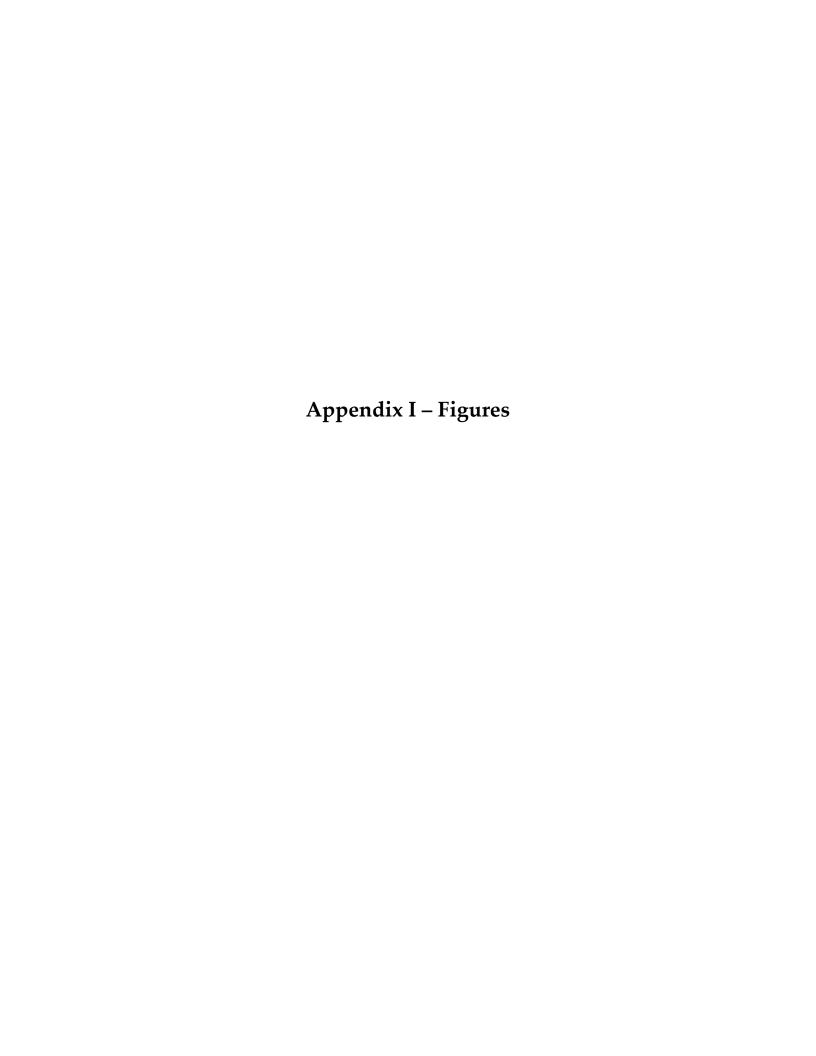
Environmental Professional

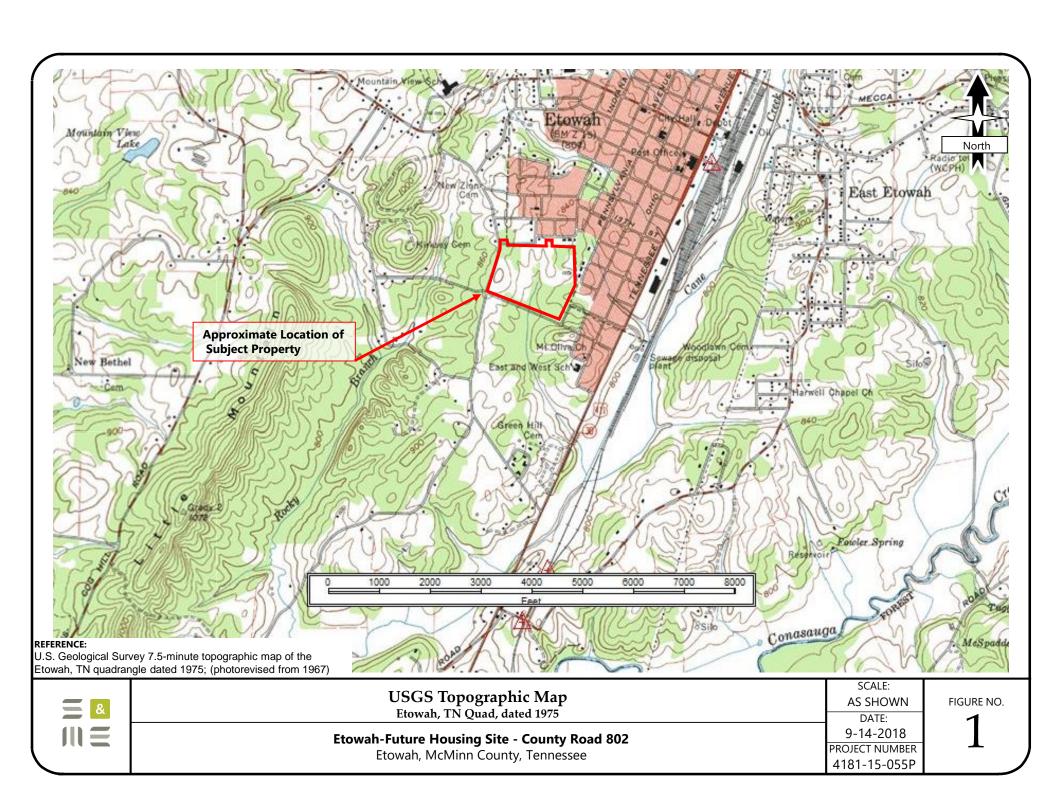
16.0 Qualification(s) of Environmental Professional(s)

S&ME provides a broad range of environmental services, including site assessments for real estate transactions. S&ME has over 1,100 employees located in twenty six offices throughout the southeast. Engineering News Record (ENR) ranked S&ME as one of the 200 largest environmental firms in the country.

Qualifications of the environmental professionals who contributed to this Phase I ESA are included in Appendix VIII.





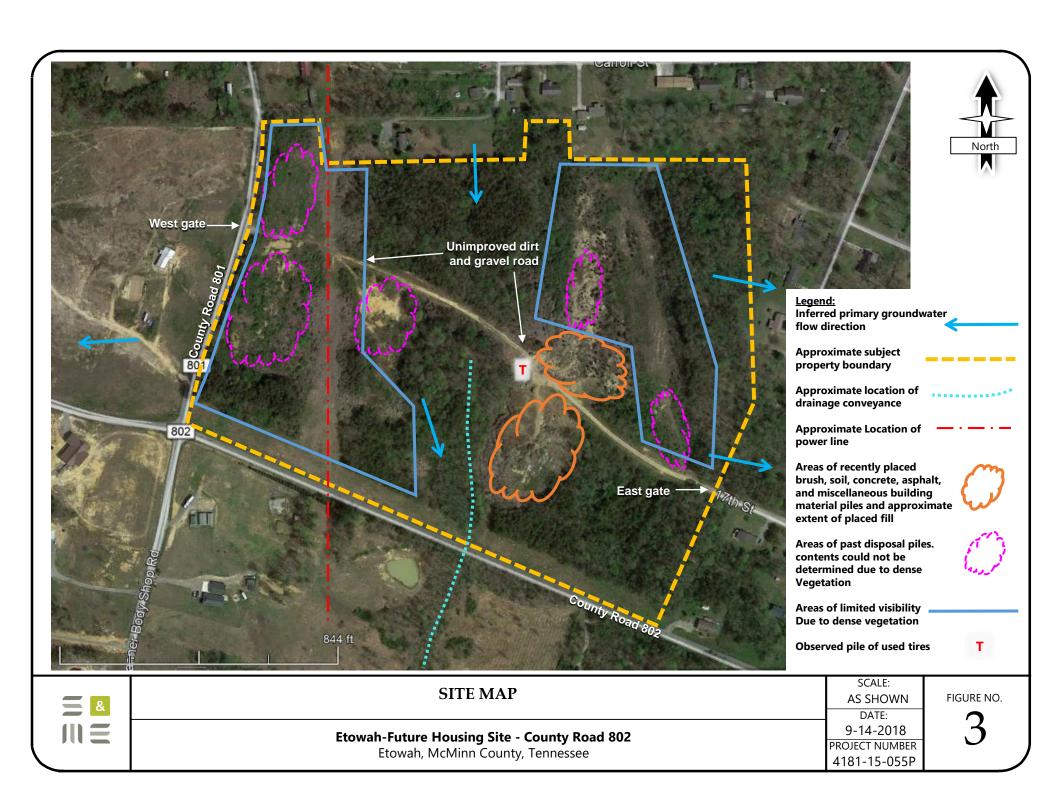


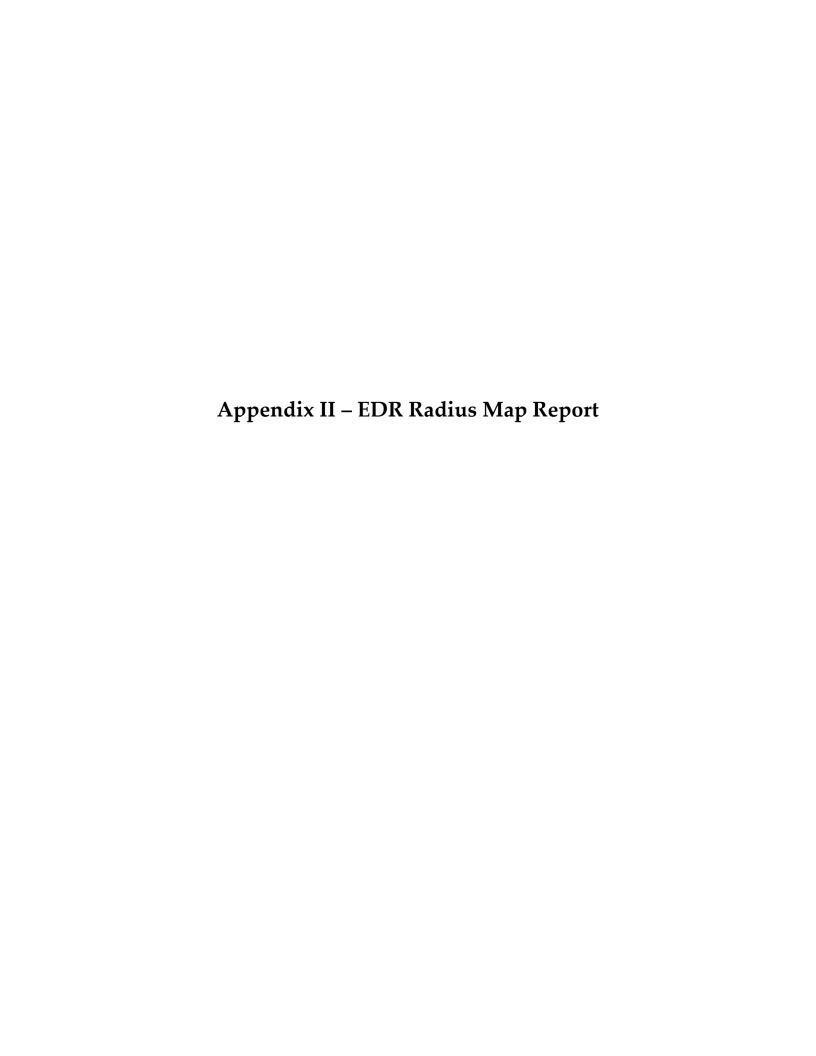




Etowah-Future Housing Site - County Road 802 Etowah, McMinn County, Tennessee

AS SHOWN DATE: 9-14-2018 PROJECT NUMBER 4181-15-055P





Etowah Future Housing Site

County Road 802 Etowah, TN 37331

Inquiry Number: 5424177.2s

September 14, 2018

The EDR Radius Map™ Report with GeoCheck®



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A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

COUNTY ROAD 802 ETOWAH, TN 37331

COORDINATES

Latitude (North): 35.3156450 - 35° 18' 56.32" Longitude (West): 84.5368550 - 84° 32' 12.67"

Universal Tranverse Mercator: Zone 16 UTM X (Meters): 723927.8 UTM Y (Meters): 3910632.8

Elevation: 838 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 5942143 ETOWAH, TN

Version Date: 2013

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20140503 Source: USDA

MAPPED SITES SUMMARY

Target Property Address: COUNTY ROAD 802 ETOWAH, TN 37331

Click on Map ID to see full detail.

MAP				RELATIVE	DIST (ft. & mi.)
ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	ELEVATION	DIRECTION
A1	THOMPSON ENVIRONMENT	THOMPSON ENVIRONMENT	Γ SWF/LF	Lower	1263, 0.239, East
A2	THOMPSON ENV SERVICE	1447 SOUTH TENNESSEE	VCP, BROWNFIELDS	Lower	1263, 0.239, East

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal	NPI	site	list
Laciai	, w	3110	1131

NPL	National Priority List
Proposed NPL	Proposed National Priority List Sites
NPL LIENS	Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL...... National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY	Federal Facility Site Information listing
SEMS	Superfund Enterprise Management System

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE..... Superfund Enterprise Management System Archive

Federal RCRA CORRACTS facilities list

CORRACTS..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG	RCRA - Large Quantity Generators
RCRA-SQG	RCRA - Small Quantity Generators
RCRA-CESQG	RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

LUCIS	Land Use Control Information System
US ENG CONTROLS	Engineering Controls Sites List

US INST CONTROL..... Sites with Institutional Controls

Federal ERNS list

ERNS..... Emergency Response Notification System

State- and tribal - equivalent NPL

SHWS_____List of Inactive Hazardous Substance Sites

State and tribal leaking storage tank lists

LUST...... Leaking Underground Storage Tank Database Listing INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

LUST TRUST Fund Database

HIST_LUST CO..... Leaking Underground Storage Tanks Sites

State and tribal registered storage tank lists

FEMA UST..... Underground Storage Tank Listing

UST......Facility and Tank Report
AST......Aboveground Storage Tanks

INDIAN UST...... Underground Storage Tanks on Indian Land

State and tribal institutional control / engineering control registries

ENG CONTROLS Engineering Control Sites INST CONTROL Institutional Control Sites

State and tribal voluntary cleanup sites

INDIAN VCP...... Voluntary Cleanup Priority Listing SRP...... State Remediation Program List

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY...... Recycling Facilities Listing

ODI...... Open Dump Inventory

DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations

IHS OPEN DUMPS..... Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL..... Delisted National Clandestine Laboratory Register

CDL Registry of Contaminated Properties
PRIORITYCLEANERS DCERP Remediation Sites Listing

DEL SHWS..... Deleted State Hazardous Waste Sites

US CDL...... National Clandestine Laboratory Register

Local Lists of Registered Storage Tanks

HIST UST..... Underground Storage Tank Database

Local Land Records

LIENS_____Liens Information

LIENS 2..... CERCLA Lien Information

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System

SPILLS..... State Spills

Other Ascertainable Records

RCRA NonGen / NLR...... RCRA - Non Generators / No Longer Regulated

FUDS..... Formerly Used Defense Sites DOD..... Department of Defense Sites

SCRD DRYCLEANERS...... State Coalition for Remediation of Drycleaners Listing

US FIN ASSUR..... Financial Assurance Information

EPA WATCH LIST..... EPA WATCH LIST

2020 COR ACTION...... 2020 Corrective Action Program List

TSCA Toxic Substances Control Act
TRIS Toxic Chemical Release Inventory System

SSTS..... Section 7 Tracking Systems ROD...... Records Of Decision RMP..... Risk Management Plans

PRP..... Potentially Responsible Parties PADS...... PCB Activity Database System

ICIS...... Integrated Compliance Information System

Act)/TSCA (Toxic Substances Control Act)

..... Material Licensing Tracking System COAL ASH DOE..... Steam-Electric Plant Operation Data

COAL ASH EPA...... Coal Combustion Residues Surface Impoundments List

PCB TRANSFORMER...... PCB Transformer Registration Database

RADINFO...... Radiation Information Database

HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing

DOT OPS..... Incident and Accident Data

CONSENT..... Superfund (CERCLA) Consent Decrees

INDIAN RESERV..... Indian Reservations

FUSRAP..... Formerly Utilized Sites Remedial Action Program

UMTRA..... Uranium Mill Tailings Sites

LEAD SMELTERS..... Lead Smelter Sites

US AIRS...... Aerometric Information Retrieval System Facility Subsystem

US MINES..... Mines Master Index File ABANDONED MINES..... Abandoned Mines

FINDS..... Facility Index System/Facility Registry System

UXO...... Unexploded Ordnance Sites

DOCKET HWC..... Hazardous Waste Compliance Docket Listing ECHO..... Enforcement & Compliance History Information

FUELS PROGRAM. EPA Fuels Program Registered Listing AIRS. Listing of Permitted Sources DRYCLEANERS. Registered Facilities List LEAD. Lead Safe Housing Registry NPDES. Permitted Facility Listing VAPOR. Vapor Intrusion

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	EDR Proprietary Manufactured Gas Plants
EDR Hist Auto	EDR Exclusive Historical Auto Stations
EDR Hist Cleaner	EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF	Recovered Government Archive Solid Waste Facilities List
RGA LUST	Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in **bold italics** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the Department of Environment & Conservation's list: Sanitary, Industrial, Demolition, Solid Waste Processing Facilities and Closed Landfills.

A review of the SWF/LF list, as provided by EDR, and dated 06/12/2018 has revealed that there is 1 SWF/LF site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
THOMPSON ENVIRONMENT Status: Inactive	THOMPSON ENVIRONMENT	E 1/8 - 1/4 (0.239 mi.)	A1	8

Facility Id: SWP540001325

State and tribal voluntary cleanup sites

VCP: The Voluntary Cleanup Oversight and Assistance Program (VOAP) offers people the opportunity to work proactively with state government to address necessary cleanup of a property to return it to productive use. In return for their efforts, participants can receive a No Further Action letter and a release of liability for areas where investigation and cleanup is conducted The program is open to everyone with an interest in addressing contamination at a site.

A review of the VCP list, as provided by EDR, and dated 12/18/2017 has revealed that there is 1 VCP site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
THOMPSON ENV SERVICE Facility Status: Withdrawn Facility Id: 54523	1447 SOUTH TENNESSEE	E 1/8 - 1/4 (0.239 mi.)	A2	8

State and tribal Brownfields sites

BROWNFIELDS: Brownfields sites included on the Superfund Voluntary Cleanup, Oversight & Assistance Program listing.

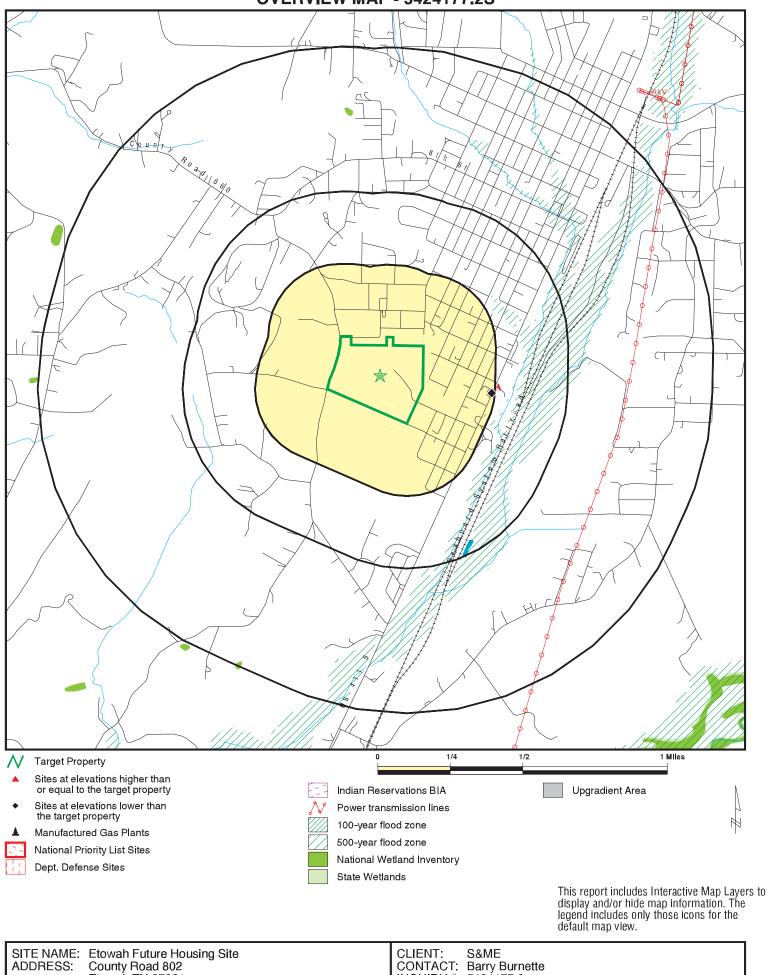
A review of the BROWNFIELDS list, as provided by EDR, and dated 06/27/2016 has revealed that there is 1 BROWNFIELDS site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
THOMPSON ENV SERVICE	1447 SOUTH TENNESSEE	E 1/8 - 1/4 (0.239 mi.)	A2	8
Facility Status: VOAP/BROWNFIELD G	GRANT			

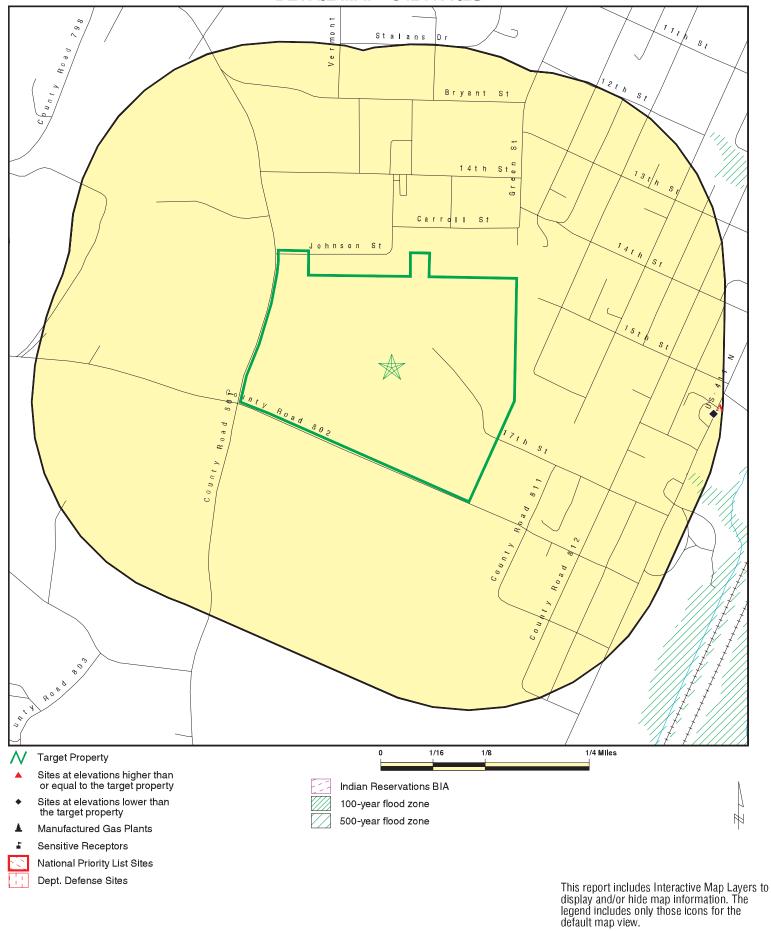
Due to poor or inadequate address information, the following sites were not mapped. Count: 6 records.

Database(s)		
LUST		
LUST		
LUST, UST		
LUST		
LUST TRUST		
LUST TRUST		

OVERVIEW MAP - 5424177.2S



DETAIL MAP - 5424177.2S



Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	Total Plotted	
STANDARD ENVIRONMENT	TAL RECORDS								
Federal NPL site list									
NPL Proposed NPL NPL LIENS	1.000 1.000 TP		0 0 NR	0 0 NR	0 0 NR	0 0 NR	NR NR NR	0 0 0	
Federal Delisted NPL site list									
Delisted NPL	1.000		0	0	0	0	NR	0	
Federal CERCLIS list									
FEDERAL FACILITY SEMS	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0	
Federal CERCLIS NFRAI	P site list								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0	
Federal RCRA CORRACTS facilities list									
CORRACTS	1.000		0	0	0	0	NR	0	
Federal RCRA non-CORRACTS TSD facilities list									
RCRA-TSDF	0.500		0	0	0	NR	NR	0	
Federal RCRA generator	rs list								
RCRA-LQG RCRA-SQG RCRA-CESQG	0.250 0.250 0.250		0 0 0	0 0 0	NR NR NR	NR NR NR	NR NR NR	0 0 0	
Federal institutional con engineering controls reg									
LUCIS US ENG CONTROLS US INST CONTROL	0.500 0.500 0.500		0 0 0	0 0 0	0 0 0	NR NR NR	NR NR NR	0 0 0	
Federal ERNS list									
ERNS	TP		NR	NR	NR	NR	NR	0	
State- and tribal - equiva	lent NPL								
SHWS	1.000		0	0	0	0	NR	0	
State and tribal landfill a solid waste disposal site									
SWF/LF	0.500		0	1	0	NR	NR	1	
State and tribal leaking s	storage tank l	ists							
LUST INDIAN LUST LUST TRUST HIST_LUST CO	0.500 0.500 0.500 0.500		0 0 0 0	0 0 0 0	0 0 0 0	NR NR NR NR	NR NR NR NR	0 0 0 0	

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted		
State and tribal registere	ed storage tar	nk lists								
FEMA UST UST AST INDIAN UST	0.250 0.250 0.250 0.250		0 0 0	0 0 0 0	NR NR NR NR	NR NR NR NR	NR NR NR NR	0 0 0 0		
State and tribal institution control / engineering control /		ıs								
ENG CONTROLS INST CONTROL	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0		
State and tribal voluntar	y cleanup site	es								
INDIAN VCP VCP SRP	0.500 0.500 0.500		0 0 0	0 1 0	0 0 0	NR NR NR	NR NR NR	0 1 0		
State and tribal Brownfields sites										
BROWNFIELDS	0.500		0	1	0	NR	NR	1		
ADDITIONAL ENVIRONMEN	ITAL RECORDS	<u>s</u>								
Local Brownfield lists										
US BROWNFIELDS	0.500		0	0	0	NR	NR	0		
Local Lists of Landfill / S Waste Disposal Sites	Solid									
SWRCY INDIAN ODI ODI DEBRIS REGION 9 IHS OPEN DUMPS	0.500 0.500 0.500 0.500 0.500		0 0 0 0	0 0 0 0	0 0 0 0	NR NR NR NR NR	NR NR NR NR NR	0 0 0 0		
Local Lists of Hazardous Contaminated Sites	s waste /									
US HIST CDL CDL PRIORITYCLEANERS DEL SHWS US CDL	TP TP 0.500 1.000 TP		NR NR 0 0 NR	NR NR 0 0 NR	NR NR 0 0 NR	NR NR NR 0 NR	NR NR NR NR NR	0 0 0 0		
Local Lists of Registered	d Storage Tar	nks								
HIST UST	0.250		0	0	NR	NR	NR	0		
Local Land Records										
LIENS LIENS 2	TP TP		NR NR	NR NR	NR NR	NR NR	NR NR	0 0		
Records of Emergency F	Release Repo	rts								
HMIRS	TP		NR	NR	NR	NR	NR	0		

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
SPILLS	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Rec	ords							
RCRA NonGen / NLR FUDS DOD SCRD DRYCLEANERS US FIN ASSUR EPA WATCH LIST 2020 COR ACTION TSCA TRIS SSTS ROD RMP RAATS PRP PADS ICIS FTTS MLTS COAL ASH DOE COAL ASH EPA PCB TRANSFORMER RADINFO HIST FTTS DOT OPS CONSENT INDIAN RESERV FUSRAP UMTRA LEAD SMELTERS US AIRS US MINES ABANDONED MINES FINDS UXO DOCKET HWC ECHO FUELS PROGRAM AIRS DRYCLEANERS	0.250 1.000 1.000 0.500 TP TP 0.250 TP TP 1.000 TP		O O O O O RR O R R R R R R R R R R R R	00000KK0KKKOKKKKKKKKKKOKKKOOOOKKOOKOKKOK	R O O O R R R R R O R R R R R R R R R O O O O O R R R R R O R R R R R R R R R R R R R R O O O O O O O R R R R R O R	R O O R R R R R R R R R R R R R R R R R	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
LEAD NPDES VAPOR	TP TP 0.500		NR NR 0	NR NR 0	NR NR 0	NR NR NR	NR NR NR	0 0 0
EDR HIGH RISK HISTORICA			U	U	U	INK	INIX	U
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	<u>1/2 - 1</u>	> 1	Total Plotted
EDR Hist Auto EDR Hist Cleaner	0.125 0.125		0	NR NR	NR NR	NR NR	NR NR	0 0
EDR RECOVERED GOVE	ERNMENT ARCHIV	/ES						
Exclusive Recovered	Govt. Archives							
RGA LF	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals		0	0	3	0	0	0	3

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

MAP FINDINGS Map ID

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

Α1 THOMPSON ENVIRONMENTAL SERVICE, INC. SWF/LF S108147830 **East**

THOMPSON ENVIRONMENTAL SERVICE, INC. N/A

1/8-1/4 MCMINN (County), TN 37331

0.239 mi.

1263 ft. Site 1 of 2 in cluster A

SWF/LF: Relative:

Lower Facility ID: SWP540001325 Status: Inactive

Actual: Permittee: THOMPSON ENVIRONMENTAL SERVICE, INC. 814 ft.

Issuance: 06/12/2001

> Mailing Address: 1447 South Tennessee Avenue

Mailing City: Etowah 35.314812 Latitude: Longitude: -84.530028 Permit ID: 1164 Site ID: 47911 Application to NCO: Not reported

"Dewatering, solidification, and stabilization of non-hazardous municipal and industrial waste" Activity:

A2 THOMPSON ENV SERVICES VCP S117406341 East **1447 SOUTH TENNESSEE AVENUE BROWNFIELDS** N/A

1/8-1/4 ETOWAH, TN

0.239 mi.

1263 ft. Site 2 of 2 in cluster A

VCP: Relative:

Lower Facility ID: 54523 Facility Status: Withdrawn Actual: 814 ft. Program: Voluntary

SubProgram: Voluntary EFO: Knoxville Latitude: 35.314812 -84.530028 Longitude: 7.6 Acres:

BROWNFIELDS:

Facility ID: 54523

Facility Status: VOAP/BROWNFIELD GRANT Count: 6 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
ETOWAH	S104781041	MILLIRONS 76	HIGHWAY 411 NORTH	37331	LUST TRUST
ETOWAH	S119193910	PEOPLES #2053	HIGHWAY 411	37331	LUST TRUST
ETOWAH	S107461821	PEOPLES #2053	HIGHWAY 411	37331	LUST
ETOWAH	S109538633	CITY OF ETOWAH	8TH ST., CITY BARN P.O. BOX 39	37331	LUST
ETOWAH	U004167210	JACKS EXXON	1100 TENNESSEE AVENUE	37331	LUST, UST
ETOWAH	S121924354	ETOWAH UNION 76	TENNESSEE AVENUE	37331	LUST

ZIP	EDR-ID	Facility ID	Name	Address	Map/Dir/Dist	City	State	Databases
** - Indi	cates location	may or may not be	e in requested radius. Site has not been assig	ned a latitude/longitude coordinate. Further	review recommende	ed.		
37331	1009672351	110027736403	JACKS EXXON		**	ETOWAH	TN	FINDS
37331 37331	1009656405	1100277625292 110027750618	ETOWAH AMOCO SEABOARD SYSTEM RAILROAD INC		**	ETOWAH ETOWAH	TN TN	FINDS FINDS
37331	1009656405 1009770906 1009666066	110027707532	HIWASSEE RANGER DIST		**	ETOWAH	TN	FINDS
37331	1009662166	110027707332	GOLDEN GALLON #209		**	ETOWAH	TN	FINDS
37331	1009658680	110027659736 110027616989	VALLEY MART #11		**	ETOWAH	ŤŇ	FINDS
37331	1009793850	110027786420	ARA SERVICES MCCLARY HARDWARE GOODSPRING GROCERY		**	ETOWAH	TN	FINDS
37331	1009769196 1009658355	110027754883 110027687395	MCCLARY HARDWARE		**	ETOWAH	TN	FINDS
37331	1009658355	110027687395	GOODSPRING GROCERY		**	ETOWAH	TN	FINDS
37331	1009660408	110027684245	HIWASSEE LAND CO. DISTRICT OFFIC		**	ETOWAH	TN	FINDS
37331	1009657203 1009659830	110027633158 110027674318	SPENCER GROCERY CITY OF ETOWAH		**	ETOWAH ETOWAH	TN	FINDS
37331 37331	1009659630	110027674316	ROCKY TOP MARKET #9		**	ETOWAH	TN TN	FINDS FINDS
37331	1009733110	110027722711	BOOK OUT TEXACO SS		**	ETOWAH	TN	FINDS
37331	1009791248 1009663960 1009656406	110027785742 110027662964	BOOK OUT TEXACO SS REEDY S AUTO PARTS ETOWAH DRY CLEANERS		**	ETOWAH	ŤŇ	FINDS
37331	1009656406	110027625425	ETOWAH DRY CLEANERS		**	ETOWAH	TN	FINDS
37331	1009675489 1009770845	110027721703	YORK GULF STATION		**	ETOWAH	TN	FINDS
37331	1009770845	110027743440	PEOPLES #2053		**	ETOWAH ETOWAH	TN	FINDS
37331	2011009673				**	ETOWAH	TN	HMIRS
37331	1009660406	110027684192 110027742469	HIWASSEE LAND CO. PHILLIPS 66 CO #023429		**	ETOWAH	TN	FINDS
37331	1009766703 1009735990	110027742469	PHILLIPS 66 CO #023429		**	ETOWAH	TN	FINDS
37331	1009/35990	110027732568	PANTRY # 3600 DBA GOLDEN GALLON		**	ETOWAH	TN	FINDS
37331	1009658229	110027636707 110027659987	JIFFY 7 TIL 11 MARKET #23 TRIANGLE MARKET		**	ETOWAH ETOWAH	TN	FINDS
37331 37331	1009657577 1009774591	110027659967	MILRON S 76		**	ETOWAH	TN TN	FINDS FINDS
37331	1009774391	110027762464	ETOWAH UNION 76		**	ETOWAH	TN	FINDS
37331	1009737789	110027030223	PANTRY #3571 DBA GOLDEN GALLON		**	ETOWAH	ŤŇ	FINDS
37331	1020658587	110027700100	BOOKOUTS 9TH STREET SHELL	9TH ST & PENNSYLVANIA AVE		ETOWAH	TN	EDR Historical Auto Stations
37331	1022987636	110070024006	ROCKY BRANCH FARM	CR-803 / 116 CR-681	**	ETOWAH	TN	FINDS
37331	S117036516		ROCKY BRANCH FARM	CR-803 / 116 CR-681	**	ETOWAH	TN	NPDES
37331	1020929370		SPENCERS GROCERY	ROUTE 1	**	ETOWAH	TN	EDR Historical Auto Stations
37331	1016257412	110008131271	TIPTON FURNITURE CO.	RT 1 BOX 411 P O BOX 404 CARLO	**	ETOWAH	TN	FINDS
37331	1000919329	TND990656381	TIPTON FÜRNITÜRE CO. DYNASTY SPAS INC	RT 1 BOX 411 P O BOX 404 CARLO	**	ETOWAH	TN	RCRA-NonGen
37331	1005513026	110006530637	DYNASTY SPAS INC	1235 HIGHWAY 30		ETOWAH	TN	FINDS
37331	1021485725		WILSONS BEST DEAL STORE	HWY 30	**	ETOWAH	TN	EDR Historical Auto Stations
37331	1000876121	TND003338712	BIG BEAR ADHESIVE CO	HWY 30 COUNTY 527		ETOWAH	TN	RCRA-NonGen
37331 37331	1016212539 1020911865	110006120633	BIG BEAR ADHESIVE CO WILSONS BEST DEAL STORE	HWY 30 COUNTY 527 HWY 30 W	**	ETOWAH ETOWAH	TN TN	FINDS EDR Historical Auto
37331	1021563319		ROBINSON ENTERPRISES INC	HWY 30 W	**	ETOWAH	TN	Stations EDR Historical Auto
37331	1022126125		SPENCERS GROCERY	467 HIGHWAY 310		ETOWAH	TN	Stations EDR Historical Auto
37331	U003544395	3-540135	SPENCER GROCERY	469 HIGHWAY 310		ETOWAH	TN	Stations HIST UST
37331	1021152381	0 040100	SPENCERS GROCERY	469 HIGHWAY 310		ETOWAH	ŤŇ	EDR Historical Auto Stations
37331	U004167244		SPENCER GROCERY	469 HIGHWAY 310		ETOWAH	TN	LUST, UST RCRA-NonGen
37331	1000915071	TND003499464	SPENCER GROCERY CHOATE PRINTING CO	89 5 35 62 10 32 8378 20 50 18	**	ETOWAH	TN	RCRA-NonGen
37331	1008196216	TNR000014795	ADVANCED SPA DESIGNS, INC.	469 HIGHWAY 310 89 5 35 62 10 32 8378 20 50 18 1347 HIGHWAY 411 NORTH		ETOWAH	TN	RCRAInfo-LQG
37331	1005982584	110000589943	ADVANČED ŠPA DEŠIĞNŠ, INC. ENGLEWOOD SPUR	1347 HWY. 411 N.		ETOWAH	TN	FINDS
37331	1020875149		ENGLEWOOD SPUR	1400 HIGHWAY 411 N		ETOWAH	TN	EDR Historical Auto
37331	U004167269		REEDY'S AUTO PARTS	2231 HIGHWAY 411 NORTH		ETOWAH	TN	Stations UST
37331	S111314950		JOHNS MANVILLE, INC.	2231 HIGHWAY 411 NORTH 2235 HIGHWAY 411 NORTH		ETOWAH	ŤŇ	AIRS, NPDES
37331	S121927112		JOHNS MANVILLE 54-0132	2235 HIGHWAY 411 NORTH		ETOWAH	TN	AIRS
37331	1014199620		JOHNS MANVILLE - ETOWAH PLANT	2235 HWY 411 NORTH		ETOWAH	TN	TSCA
37331	1000433077	110000745524	JOHNS MANVILLE, INC.	2235 U.S. 411 N.		ETOWAH	TN	ICIS, FINDS, RCRAInfo-LQG,
.=	0.40400=4:-		1011110 144111 (11) 5 11 17 5 1	0005 II 0 444 NODTII		=======================================		TRIS
37331	S121927113		JOHNS MANVILLE INTERNATIONAL, INC	2235 U.S. 411 NORTH		ETOWAH	TN	AIRS
37331	S112153743		DANITOV INC	2373 HWY 411 NORTH C-4	**	ETOWAH	TN	CDL
37331	1021053359		PANTRY INC	835 HIGHWAY 411 N	***	ETOWAH	TN	EDR Historical Auto
37331	1016150545	110055474901	RITE AID #3381	856 HIGHWAY 411 NORTH		ETOWAH	TN	Stations RCRA-CESQG, FINDS
37331	1016150545 1009666173	110055474801 110027632505	WOODS MEMORIAL HOSPITAL	886 HIGHWAY 411 NORTH		ETOWAH	TN	FINDS
37331	U003612559	3-540152	YORK GULF STATION	HIGHWAY 411	**	ETOWAH	TN	HIST UST
37331	S119193910	0 0 10 102	PEOPLES #2053	HIGHWAY 411	**	ETOWAH	ŤŇ	LUST TRUST
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1923 1904-19725 3-540142 TRAVIAGE MARKET HIGHWAY 411 FET COVARI TO HIGHWAY 411 H	ZIP	EDR-ID	Facility ID	Name	Address	Map/Dir/Dist	City	State	Databases
1975 1975				YORK GULF STATION	HIGHWAY 411				UST
1000019252 3-5-0006			3-540142						
1973 1909 1923 1909 1923 1909 1923 1909 1923 1909 1923 1909 1923 1909 1923 1909 1923			2 540110						
19731 1004167289 3540110 TRIANGLE MARKET HIGHWY 411 MET HIGHWY 411 M	37331	U003612539	3-540110	MCCI ARY HARDWARE					
1973 100416723 10041723 1		U004167249	0 0 10000						
1773 100034954490 1007495429 100749	37331		3540110	PEOPLES #2053					
1973 10003887 3-40011 1000785456 1000785556 1000785566 1000785566						**			
1000917956 TND074910655 TND074			3-5/0111			**			
101007785-22			TND074910845	WOODS MEMORIAL HOSPITAL DISTRICT	HIGHWAY 411 N PO BOX 410				
10001173 10001730	37331	1016242700	110007865426	WOODS MEMORIAL HOSPITAL DISTRICT	HIGHWAY 411 N PO BOX 410				FINDS
\$10,000 \$10,				HAMMER - JOHNSON SUPPLY, LLC - ETO	HIGHWAY 411 NORTH				
1973 1008		\$10/861161	2540000						
3731 10004167206 10041672						**			
37331 U003012221 35-40060			0 040100	HIWASSEE LAND CO.	HIGHWAY 411 SOUTH	**			
37331 U003812534 U0038125		U003612521	3-540066	HIWASSEE LAND CO.	HIGHWAY 411 SOUTH				
37333 1078949940 37331		U004167223	0.540000	MILRON'S 76	HIGHWAY 411 SOUTH				
37331 1014937264 101491233902 37331 101491233902 37331 101491233902 37331 101491233902 37331 101491238012 37331 101491238012 37331 1021238018 37331 3		1016040040	3-540099						
37331 5107461840 34-0142 TRIANGLE MRT HWY 411 "ETOWAH TN EDR Historical Auto ETOWAH TN EDR HIStorical Auto ETO			110041233803	J M HUBER CORPORATION					
1021250998 1021250998 1021250998 1021250998 1021250998 1021250998 10212509999 1021250999999999999999999999999999999999					HWY 411				
37331 \$107461846 \$3540152 YORK GULF STATION HWY 411 ** ETOWAH TN EDK Historical Auto Stations ETOWAH TN EDK Historical Auto EDK Historical	37331			ENGLEWOOD SPUR	HWY 411	**	ETOWAH	TN	EDR Historical Auto
37331 10221296234	07004	0407404040	0540450	VODIC OUR E OTATION	10007 444	**	FTOM/ALL	T 1	
37331 1020519244			3540152			**			
37331 1020519244 MR ZIP INC OF TENNESSEE	3/331	1022120033		WIR ZIF INC OF TEININESSEE	NW1 411 & 3111 31		ETOWAH	IIN	
37331 \$129779654 T.D. \$10090648024 \$340999 STANAPORTALINA T.D. \$10090648024 S	37331	1020519244		MR ZIP INC OF TENNESSEE	HWY 411 5TH ST	**	ETOWAH	TN	EDR Historical Auto
37331 1009918762 TND99064024 EAUNIT CORP HWY 411 N ETOWAH TN CERCLIS-MFRAP, RCRA-NonGen MWY 411 N ETOWAH TN LUST STATE TOWAH TN CERCLIS-MFRAP, RCRA-NonGen MWY 411 N ETOWAH TN LUST STATE TOWAH TN CERCLIS-MFRAP, RCRA-NonGen MWY 411 N ETOWAH TN CERCLIS-MFRAP, RCRA-NonGen MWY 411 N TN CERCLIS-MFRAP, RCRA-NonGen TOWAH TN CERCLIS-MFRAP, RCRA-NonGen TOWAH TN CERCLIS-MFRAP, CRA-NonGen	37331	S120975654		AUTO ZONE - ETOWAH	HWY 411 AT 4TH STREET		ETOWAH	TN	
37331 10210961896 10009129490 10009129490 10009129490 10009129490 10009129490 10009129490 10009129490 10009129490 10009129490 10009129490 10009129490 10009129490 10009129499 10009129683 1000912999 10009129		1000918762		BEAUNIT CORP					
37331 1021095608 ENGLEWOOD SPUR						**			
Stations			110008128490	ENGLEWOOD SPLIR		**			
37331 1003179074 540029 FEEDY'S AUTO PARTS PANTRY #3571 DBA GOLDEN GALLON REEDYS SPUR SERVICE STATION HIVY 441 N "ETOWAH TN HIST UST, LUST, UST STA0020 STA0020 FEEDWAH TN HIST UST, LUST, UST STA0020 FEEDWAH TN HIST UST STA0020 FEEDWAH TN FEEDWAH FEEDWAH TN FEEDWAH FEEDWAH TN FEEDWAH TN FEEDWAH TN FEEDWAH TN FEE	07001	1021033000		ENGLEWOOD OF OR	11001 411 10		2100001	111	
37331 1020498777 REEDYS SPUR SERVICE STATION HVY 441 N ** ETOWAH TN EDR Historical Auto Stations Statio						**			LUST
37331 102496867 NEEDITS SPIN SPINES STATION TWY 441N ETOWAH TN ETOWAH ETOWAH TN ETOWAH ETOWAH TN ETOWAH ETOWAH TN ETOWAH T			3-540220			**			HIST UST, LUST, UST
37331 \$121927095 SHUGART ELMER E 112 E8TH ST ETOWAH TN AIRS SHUGART ELMER E 112 E8TH ST ETOWAH TN ETOWAH	37331	1020485777		REEDYS SPUR SERVICE STATION	HWY 441 N	**	ETOWAH	TN	
37331 1021496867	37331	S121927095		J.M. HUBER CORPORATION	131 HIGHWAY 875		ETOWAH	TN	
37331 U003612549 3-540131 SEABOARD SYSTEM RAILROAD INC STH AND TENNESSEE AVENUE ETOWAH TN UST SEABOARD SYSTEM RAILROAD INC STH AND TENNESSEE AVENUE ETOWAH TN UST SEABOARD SYSTEM RAILROAD INC STH ST AND TENNESSEE AVENUE ETOWAH TN UST SEABOARD SYSTEM RAILROAD INC STH ST AND TENNESSEE AVENUE ETOWAH TN UST SEABOARD SYSTEM RAILROAD INC STH ST AND TENNESSEE AVENUE ETOWAH TN UST SEABOARD SYSTEM RAILROAD INC STH ST AND TENNESSEE AVENUE ETOWAH TN UST SEABOARD SYSTEM RAILROAD INC STH ST AND TENNESSEE AVENUE ETOWAH TN UST STAND TENNESSEE AVENUE ETOWAH TN UST									
37331 1004167242 SEABOARD SYSTEM RAILROAD INC STH AND TENNESSEE AVENUE STOWAH TN UST STAND TENNESSEE AVENUE STOWAH TN UST									
37331 107461831 3540131 CSX TRANSPORTATION BOOKOUT TIRE AND LUBE 809 ATHENS PIKE ETOWAH TN EDR Historical Auto Stations Sta			3-540131						
37331 1029517023			35/0131						
37331 101999882 TNR000042143 BOOKOUT TIRE & LUBE 809 ATHENS PIKE ETOWAH TN FINDS TN FINDS TN FINDS TN FINDS TN FINDS TN FINDS FIOWAH TN FIOWAH FIOWAH TN FIOWAH			3340131						
37331 1022388220 110069707892 BOOKOUT TIRE & LUBE 809 ATHENS PIKE ATHENS PIKE TOWAH TN FINDS Stations									Stations
37331 1021346496 BLAIRS AUTO PARTS ATHENS PIKE AT HWAY 30 ** ETOWAH TN EDR Historical Auto Stations Stat		1019909882		BOOKOUT TIRE & LUBE					
Stations			110069707892			**			
37331 S121924355 S173461769 S340018 411 MUFLER SHOP TN AVE MANUFACTURER PO BOX 267 S17331 1016242270 110007860332 COLE FURNITURE MANUFACTURER PO BOX 267 S17331 1016130392 TND061008207 COLE FURNITURE MANUFACTURER PO BOX 267 S17331 1016130392 TND061008207 S17331 1016130392 S17331	3/331	1021340490		BLAIRS AUTO PARTS	ATHENS PIRE AT HWAT 30		ETOWAH	IIN	
37331 1016242270 110007860332 COLE FURNITURE MANUFACTURER PO BOX 267 *** ETOWAH TN FINDS TN TN TN FINDS TN TN TN TN TN TN TN T		S121924355		ETOWAH UNION 76	TN AVE	**	ETOWAH	TN	LUST
37331 100916983 TND061008207 COLE FURNITURE MANUFACTURER PO BOX 267 ** ETOWAH TN FINDS STANDS TND061008207 110008124939 EVONIK CORPORATION CAMBRIA ROAD ETOWAH TN FINDS TSCA			3540018						
100919392 110008124939 1100081		1016242270	110007860332	COLE FURNITURE MANUFACTURER	PO BOX 267				
37331 1014199581 J.M. HUBER CORP - ETOWAH CAMBRIA ROAD ** ETOWAH TN TSCA 37331 1015738029 J. M. HUBER CORPORATION CAMBRIA ROAD ** ETOWAH TN UST U004167190 CITY OF ETOWAH 8TH ST., CITY BARN P.O. BOX 39 ** ETOWAH TN UST U002101266 3-540034 CITY OF ETOWAH 8TH ST., CITY BARN P.O. BOX 390 ** ETOWAH TN LUST UST U		1000916983							
37331 1015738029 J. M. HUBER CORPORATION CAMBRIA ROAD ETOWAH TN ICIS			110000124333			**			
37331 000416790 CITY OF ETOWAH 8TH ST., CITY BARN P.O. BOX 39 ** ETOWAH TN LUST 37331 1002101266 3-540034 CITY OF ETOWAH 8TH ST., CITY BARN P.O. BOX 390 ** ETOWAH TN HIST UST 57331 1021891739 GARDNER GROCERY COGHILL RD ** ETOWAH TN EDR Historical Auto Stations 57331 1020338041 GARDNER GROCERY COGHILL RD ** ETOWAH TN EDR Historical Auto Stations 57331 5111987201 CSX TRANSPORTATION, INC ETOWAH 101 COUNTY RD 475 ETOWAH TN NPDES, SPILLS 37331 10218688 37331 1016146880 37331 JMHBRCA JM HUBER CORP 131 COUNTY RD 975 ETOWAH TN CDL 37331 1016146880 37331JMHBRCA JM HUBER CORP 131 COUNTY RD 875	37331	1015738029		J. M. HUBER CORPORATION	CAMBRIA ROAD		ETOWAH	TN	ICIS
37331 U002101266 3-540034 CITY OF ETOWAH 8TH ST., CITY BARN P.O. BOX 390 ** ETOWAH TN HIST UST Stations Station					8TH ST., CITY BARN	**			
37331 1021891739 GARDNER GROCERY COGHILL RD ** ETOWAH TN EDR Historical Auto Stations Statio			3 540024		81H S1., CITY BARN P.O. BOX 39	**		[N TN	
Stations		1021891739	3-340034						
37331 1020338041 GARDNER GROCERY COGHILL RD ** ETOWAH TN EDR Historical Auto Stations Statio	07001	1021031703		G/INDIVER GROOLIN	OOGHILL ND		2100001	111	
37331 \$111987201	37331	1020338041		GARDNER GROCERY	COGHILL RD	**	ETOWAH	TN	EDR Historical Auto
37331 1022966375 110070001308 CSX TRANSPORTATION, INC ETOWAH 101 COUNTY RD 475 ETOWAH TN FINDS 37331 S112153688 105 COUNTY RD 900 ETOWAH TN CDL 37331 1016146860 37331JMHBRCA JM HUBER CORP 131 COUNTY RD 875 ETOWAH TN TRIS	07004	044400700:		OCY TRANSPORTATION INC. STOWN	404 COLINEY DD 475		ETOMALI	TNI	
37331 S112153688			110070001302						NPDES, SPILLS FINDS
37331 1016146860 37331JMHBRCA JM HUBER CORP 131 COUNTY RD 875 ETOWAH TN TRIS			110070001300	SOA TIMINOI ORTATION, INC LTOWALL					
37331 1017809322 110024586544 J.M. HUBER CORPORATION 131 COUNTY ROAD 875 ETOWAH TN FINDS, TSCA	37331	1016146860		JM HUBER CORP	131 COUNTY RD 875		ETOWAH	TN	TRIS
	37331	1017809322	110024586544	J.M. HUBER CORPORATION	131 COUNTY ROAD 875		ETOWAH	TN	FINDS, TSCA

ZIP	EDR-ID	Facility ID	Name	Address	Map/Dir/Dist	City	State	Databases
37331 37331	1018293378 2010931228		J M HUBER CORP ETOWAH	131 COUNTY ROAD 875 131 COUNTY ROAD 875		ETOWAH ETOWAH	TN TN	ICIS ERNS
37331 37331	1012188455 S111804046	TND982159600	EVONIK CORPORATION EVONIK CORPORATION	131 COUNTY ROAD 875 131 COUNTY ROAD 875		ETOWAH ETOWAH	TN TN	RCRA-CESQG AIRS, NPDES
37331 37331	S116561920 1006931525	TNR000017194	RAY-HAL & COMPANY, INC.	440 COUNTY RD 527 488 COUNTY ROAD 788		ETOWAH ETOWAH	TN TN	CDL RCRA-NonGen
37331	1006976541	110015666199	RAY-HAL & COMPANY, INC.	488 COUNTY ROAD 788		ETOWAH	TN	FINDS
37331 37331	1008384440 1006222286	110022468621 110009786874	WAUPACA FOUNDRY PLANT 6 LANDFILL ETOWAH STP	COUNTY RD. 516 COUNTY ROAD 850		ETOWAH ETOWAH	TN TN	FINDS ICIS, FINDS
37331 37331	1016146099 S117036519		ETOWAH STP CRAIG POWELL FARM	COUNTY ROAD 850 1182 CR-609	**	ETOWAH ETOWAH	TN TN	NPDES
37331 37331	S117036614 S111803874		CRAIG POWELL FARM ROBERT LAMBERTON POULTRY FARM	1182 CR-609 1792 CR-609		ETOWAH ETOWAH	TN TN	NPDES NPDES
37331	S111805309		ROBERT LAMBERTON POULTRY FARM	1792 CR-609		ETOWAH	TN	NPDES
37331 37331	S107859466 1022991810	110070028184	ETOWAH STP ETOWAH STP	275 CR-850 275 CR-850		ETOWAH ETOWAH	TN TN	NPDES FINDS
37331 37331	S111805417 S111804417		ETOWAH STP ETOWAH STP	275 CR-850 275 CR-850		ETOWAH ETOWAH	TN TN	NPDES NPDES
37331 37331	S111807003 S121288762		NORTH ETOWAH INDUSTRIAL PARK EVONIK CORPORATION DEMOLITION LAN	ETOWAH EVONIK CORPORATION DEMOLITION LAN	**	ETOWAH	TN TN	NPDES SWF/LF
37331	S121288764		EVONIK CORPORATION LANDFILL	EVONIK CORPORATION LANDFILL	**		TN	SWF/LF
37331 37331	1000922269 1016256955	TND982140444 110008124421	CSX TRANSPORTATION INC CSX TRANSPORTATION INC	FIFTH STREET PO BOX 331 ETOWAH FIFTH STREET PO BOX 331 ETOWAH	**	ETOWAH ETOWAH	TN TN	RCRA-NonGen FINDS
37331 37331	S111824175 1021175914		SR-30 GOOD SPRINGS GROCERY	FROM THE POLK COUNTY LINE TO NEAR GOOD SPRINGS RD	**	ETOWAH ETOWAH	TN TN	NPDES EDR Historical Auto
37331	1020538656		GOOD SPRINGS GROCERY	GOOD SPRINGS ROAD	**	ETOWAH	TN	Stations EDR Historical Auto
37331	U001308865	3-540058	GOOD SPRINGS GROCERY	GOODSPRING ROAD		ETOWAH	TN	Stations HIST UST, LUST TRUST,
	U004167201	3-340036			**			LUST
37331 37331	1014837663	110040715321	GOODSPRING GROCERY #3-540215 WOODS MEMORIAL	GOODSPRING ROAD GRADY RD		ETOWAH ETOWAH	TN TN	UST FINDS
37331 37331	1018286723 1020517045		JOHN MANVILLE CORPORATION CORNS GROCERY & MARKET	2235 US HWY 411 NORTH US HWY 411 S	**	ETOWAH ETOWAH	TN TN	ICIS EDR Historical Auto
37331	1022010289		MILLIRONS PURE OIL SERVICE STN	W/S HWY 411 N	**	ETOWAH	TN	Stations EDR Historical Auto
37331	1020658570		MILLIRONS UNION 76 SERVICE STN	W/S HWY 411 N	**	ETOWAH	TN	Stations EDR Historical Auto
37331	S111807164		CONSOLIDATED METCO, INC.	347 INDUSTRIAL PARK DRIVE		ETOWAH	TN	Stations NPDES
37331 37331	S111825424 1004782975	110006122846	CONSOLIDATED METCO, INC. CONSOLIDATED METCO, INC.	347 INDUSTRIAL PARK DRIVE 347 NORTH INDUSTRIAL PARK DR.		ETOWAH ETOWAH	TN TN	AIRS, NPDES RCRA-CESQG, FINDS
37331 37331	1016786924 S116232297	110058288259	ALL METAL SALVAGE	1040 EAST INMAN STREET 109 NORTH IOWA AVENUE		CLEVELAND ETOWAH	TN TN	FINDS
37331	1020165179		ROBINSON ENTERPRISES INC	1030 DW LILLARD MEM HWY		ETOWAH	TN	EDR Historical Auto Stations
37331 37331	U002101337 1021628386	3-540200	JIFFY 7 TIL 11 MARKET #23 ROBINSON ENTERPRISES INC	1030 LILLARD MEMORIAL HIGHWAY 1030 LILLARD MEMORIAL HWY	**	ETOWAH ETOWAH	TN TN	HIST UST, AST, UST EDR Historical Auto
37331	1020142868		SPENCERS GROCERY	MECCA PIKE	**	ETOWAH	TN	Stations EDR Historical Auto Stations
37331 37331	1000917211 S107461759	TND063781090 3540001	ETOWAH PRINTING CO* ARA SERVICES	MINERAL SPIRITS 0 40 TOLUENE 411 HWY N	**	ETOWAH ETOWAH	TN TN	RCRA-NonGen LUST
37331	U004167165		ARA SERVICES	411 HIGHWAY NORTH	**	ETOWAH	TN	UST
37331 37331	U003612484 9044326	3-540001	ARA SERVICES	411 HIGHWAY NORTH 411 NORTH	**	ETOWAH ETOWAH	TN TN	HIST UST ERNS
37331 37331	U003612561 U004167257	3-540160	ETOWAH DRY CLEANERS ETOWAH DRY CLEANERS	701 OHIO AVENUE 701 OHIO AVENUE		ETOWAH ETOWAH	TN TN	HIST UST UST
37331	1018484554	440007040470	ETOWAH DRY CLEANERS	701-03 OHIO AVE		ETOWAH	TN	EDR Historical Cleaners
37331 37331	1016241348 1016128022	110007848473 110007861705	CHOATE PRINTING CO ETOWAH PRINTING CO	707 OHIO AVE 718 OHIO AVE		ETOWAH ETOWAH	TN TN	FINDS FINDS
37331 37331	1004597957 1016256781	110010711738 110008121148	ETOWAH STP SOUTH CENTRAL BELL ETWHTNMA	723 OHIO AVE OHIO AVENUE	**	ETOWAH ETOWAH	TN TN	ICIS, FINDS FINDS
37331 37331	1004782024 1020888790	TND980514350	SOUTH CENTRAL BELL ETWHTNMA BOOKOUTS 9TH STREET SHELL	OHIO AVENUE 9TH ST PENNSYLVANIA AVE	**	ETOWAH ETOWAH	TN TN	RCRA-NonGen EDR Historical Auto
		110015242450			**			Stations
37331 37331	1006976319 1007214209	110015313150 110016711263	JM HUBER SODIUM SULFATE AUTOMOTIVE SALES & REPAIR	POSTAL ADDRESS IS UNAVAILABLE FOR 9441 RHEA COUNTY HIGHWAY		ETOWAH DAYTON	TN TN	FINDS FINDS
37331 37331	1007119531 S111807224	TNR000017749	AUTOMOTIVE SALES & REPAIR MCMINN COUNTY BASE 41	9441 RHEA COUNTY HIGHWAY 100 ROBINSON AVE.	**	DAYTON ETOWAH	TN TN	RCRA-NonGen NPDES
37331	1021209721		YORK GULF SERVICE STATION	U S HWY 411 N 2 MI	**	ETOWAH	TN	EDR Historical Auto

ZIP	EDR-ID	Facility ID	Name	Address	Map/Dir/Dist	City	State	Databases
37331	1021262195		YORK GULF SERVICE STATION	U S HWY 411 N 2 MI	**	ETOWAH	TN	Stations EDR Historical Auto Stations
37331 37331 37331 37331 37331 37331	U003612522 U004167207 1016203609 1000919651 1016256634 1000918557 1021195991	3-540068 110004952864 TN0000607879 110008119179 TND084055615	HIWASSEE RANGER DIST HIWASSEE RANGER DIST MORGAN MANUFACTURING COMPANY IN MORGAN MANUFACTURING COMPANY IN KINCAID EVERETTE DVM KINCAID EVERETTE DVM KCS AUTO & TRUCK REPAIR	SCOTT AVENUE SCOTT AVENUE 200 SEVENTH STREET 200 SEVENTH STREET SIDE ROAD SIDE ROAD 326 9TH ST	** ** **	ETOWAH ETOWAH ETOWAH ETOWAH ETOWAH ETOWAH ETOWAH	TN TN TN TN TN TN	HIST UST UST FINDS RCRA-NonGen FINDS RCRA-NonGen EDR Historical Auto
37331	1020230728		MR ZIP INC OF TENNESSEE	411 5TH ST		ETOWAH	TN	Stations EDR Historical Auto
37331 37331 37331	1022289119 S111807090 1020480857	110070002015	ETOWAH CITY BARN & IMPOUND ETOWAH CITY BARN & IMPOUND HICKS FRANK	914 8TH ST 914 8TH ST 9TH ST	**	ETOWAH ETOWAH ETOWAH	TN TN TN	Stations FINDS NPDES EDR Historical Auto Stations
37331 37331 37331 37331 37331 37331 37331 37331 37331 37331	1016135984 1007467924 1015736620 1023387790 1005624567 1016295883 S111807091 S121924356 1000914757 1021583594	110040843610 110017418356 TND987787280 110067008687 110011732287	JOHNS MANVILLE INTERNATIONAL, INC PLANT 6 BIG BEAR CHEMICAL COMPANY ETOWAH CITY SCHOOL ETOWAH CITY SCHOOL DISTRICT ETOWAH CITY SCHOOL DISTRICT ETOWAH PUBLIC WORKS FACILITY ON SI CONOCO (JET) STORE# 42022 SPORT-WEAR MILLS INC CITY SINCLAIR STATION	2235 STATE ROUTE 411 STATE HIGHWAY 33 STATE HWY 30 & COUNTY RD 527 858 8TH STREET 88 8TH STREET 108 SUNRISS LANE 229 TENN AVENUE NORTH 508-510 TENN AVENUE 515 E-S TENN AVE	**	ETOWAH	TN TN TN TN TN TN TN TN TN	FINDS FINDS CERCLIS-NFRAP FINDS FITS FINDS NPDES LUST RCRA-NonGen, FINDS EDR Historical Auto
37331	1021858095		CITY SINCLAIR STATION	515 TENN AVE		ETOWAH	TN	Stations EDR Historical Auto Stations
37331 37331	97389762 1020289300		ETOWAH UNION 76 STATION	TENN AVE TENN AVE NEAR 7TH	**	ETOWAH ETOWAH	TN TN	Stations EDR Historical Auto Stations
37331	1021235562		ETOWAH PURE STATION	TENN AVE NEAR 7TH	**	ETOWAH	TN	EDR Historical Auto Stations
37331 37331 37331 37331	U004184456 U003612512 1009782651 1021039288	3-540048 110027760661	ETOWAH AMOCO ETOWAH AMOCO 411 MUFFLER SHOP JACKS EXXON SERVICE STATION	100 TENNESSEE AVENUE 100 TENNESSEE AVENUE 1001 TENNESSEE AVE 1100 TENNESSEE AVE	**	ETOWAH ETOWAH ETOWAH ETOWAH	TN TN TN TN	UST HIST UST FINDS EDR Historical Auto
37331 37331 37331 37331 37331 37331	U004167210 U003179073 S121289578 1012294469 1008016596 1022110717	3-540071 110064412862 110012854526	JACKS EXXON JACKS EXXON ETOWAH UTILITIES BOARD ETOWAH UTILITIES BOARD WTP ETOWAH UTILITIES SWEETWATER VALLEY OIL CO	1100 TENNESSEE AVENUE 1100 TENNESSEE AVENUE 1313 SOUTH TENNESSEE AVENUE 1313 TENNESSEE AVENUE 1317 TENNESSEE AVE 229 N TENNESSEE AVE	**	ETOWAH ETOWAH ETOWAH ETOWAH ETOWAH ETOWAH	TN TN TN TN TN TN	Stations LUST, UST HIST UST NPDES FINDS ICIS, FINDS EDR Historical Auto
37331 37331 37331	S121924358 S121924357 U001308869	3-540077	VALLEY MART #11 CONOCO, INC. VALLEY MART NO. 11	229 TENNESSEE AVENUE NORTH 229 TENNESSEE AVENUE NORTH 229 TENNESSEE AVENUE NORTH		ETOWAH ETOWAH ETOWAH	TN TN TN	Stations LUST LUST HIST UST, LUST TRUST,
37331 37331 37331	U002101297 S107461817 1020864999	3-540106 3540106	CIRCLE K NO. 2723600 PANTRY #3600 D/B/A KANGAROO EXPRES ROBINSON ENTERPRISES INC	230 TENNESSEE AVENUE 230 TENNESSEE AVENUE 400 TENNESSEE AVE 3		ETOWAH ETOWAH ETOWAH	TN TN TN	UST HIST UST, UST LUST EDR Historical Auto
37331	U003349773	3-540154	MR. ZIP STORE # 505	500 SOUTH TENNESSEE AVENUE		ETOWAH	TN	Stations HIST UST, LUST TRUST,
37331	1021108756		CLEVELAND OIL CO INC	513 TENNESSEE AVE		ETOWAH	TN	LUST, UST EDR Historical Auto
37331	1021676033		CITY ARCO STATION	515 E/S TENNESSEE AVE	**	ETOWAH	TN	Stations EDR Historical Auto
37331	1022167821		CITY ARCO STATION	515 E/S TENNESSEE AVE	**	ETOWAH	TN	Stations EDR Historical Auto
37331	1021082729		EXXON GAS CORPORATION	531 TENNESSEE AV		ETOWAH	TN	Stations EDR Historical Auto
37331 37331 37331 37331	S104780998 U004167195 U003612509 1020290381	3540042 3-540042	TIGER MART #12 (FORMER GOLDEN GALI GOLDEN GALLON #209 GOLDEN GALLON #209 ETOWAH AMOCO SERVICE STATION	531 TENNESSEE AVE. (AKA HIGHWAY 411 531 TENNESSEE AVENUE 531 TENNESSEE AVENUE 621 TENNESSEE AVE		ETOWAH ETOWAH ETOWAH ETOWAH	TN TN TN TN	Stations LUST TRUST, LUST UST HIST UST EDR Historical Auto
37331	1021789881		HIGH FLO EXHAUST & AUTO SERVIC	701 TENNESSEE AVE		ETOWAH	TN	Stations EDR Historical Auto

ZIP	EDR-ID	Facility ID	Name	Address	Map/Dir/Dist	City	State	Databases
37331	1020345698		REEDS TEXACO	801 TENNESSEE AVE		ETOWAH	TN	Stations EDR Historical Auto
37331	1020343090		REEDO TEXAGO	OUT TENNESSEE AVE		LIOWAII	111	Stations
37331	U002101260	3-540020	OLD SERVICE STATION, AKA WILSON BES	801 TENNESSEE AVENUE		ETOWAH	TN	HIST UST, LUST, UST
37331	U001910544	3-540125	ETOWAH SHELL	901 SOUTH TENNESSEE AVENUE		ETOWAH	TN	HIST UST, UST
37331	1020601402		GREENSSHELL SERVICE STATION	901 TENNESSEE AVE		ETOWAH	TN	EDR Historical Auto Stations
37331	1021428843		MOATES TEXACO SERVICE STATION	E/S TENNESSEE AVE	**	ETOWAH	TN	EDR Historical Auto
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37331	1021561155		JET MART STORE42022	TENNESSEE AV	**	ETOWAH	TN	EDR Historical Auto
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37331	1020543553		JET MART STORE 342022	TENNESSEE AVE	**	ETOWAH	TN	EDR Historical Auto
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37331	S101135175	3-540106	TIGER MART #19	TENNESSEE AVE & 3RD	**	ETOWAH	TN	HIST_LUST CO
37331	U004167198		ETOWAH UNION 76	TENNESSEE AVENUE		ETOWAH	TN	UST
37331	S111795439		CANE CREEK INTERCEPTOR (CCI) REPLA	TENNESSEE AVENUE TENNESSEE AVENUE	**	ETOWAH	TN	NPDES
37331	U002101273	3-540050	ETOWAH UNION 76	TENNESSEE AVENUE	**	ETÓWAH	TN	HIST UST
37331	S111808446		CANE CREEK INTERCEPTOR (CCI) REPLA	TENNESSEE AVENUE	**	ETOWAH	TN	NPDES
37331	S121924354		ETOWAH UNION 76	TENNESSEE AVENUE TENNESSEE AVENUE AND 10TH ST.	**	ETOWAH	TN	LUST
37331	U004167179		411 MUFFLER SHOP	TENNESSEE AVENUE AND 10TH ST.		ETOWAH	TN	UST
37331	U003612495	3-540018	411 MUFFLER SHOP	TENNESSEE AVENUE AND 10TH ST.		ETOWAH	TN	HIST UST
37331	2011969389			TENNESSEE AVENUE AT 5TH STREET		ETOWAH	TN	ERNS
37331	S118144343		PANTRY #316	THIRD STREET	**	ETOWAH	TN	LUST TRUST
37331	S108147830	SWP540001325	THOMPSON ENVIRONMENTAL SERVICE,	THOMPSON ENVIRONMENTAL SERVICE,	A, East, 1/4 - 1/2		TN	SWF/LF
37331	S105921873	IDL540000100	THYSSEN KRUPP WAUPACA, INC. PLANT	THYSSEN KRUPP WAUPACA, INC. PLANT	. ,,		TN	SWF/LF
37331	1020452786	1220 10000 100	CLINE JACK	W/S U S HWY 411 S	**	ETOWAH	ŤŇ	EDR Historical Auto
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37331	1021485744		CORNS GROCERY & MARKET	W/S US HWY 411 S	**	ETOWAH	TN	EDR Historical Auto
37331	1021403744		CONTIO ONOCENT & WANTED	W/O 0011W1 411 0		LIOWAII	111	Stations
37331	1021477648		CORNS GROCERY & MARKET	W/S US HWY 411 S	**	ETOWAH	TN	EDR Historical Auto
37331	1021477040		CORNS GROCERT & WARRET	W/3 03 11W 1 411 3		LIOWAII	IIN	Stations
37331	1021042201		CLINE JACK	W/S US HWY 4115	**	ETOWAH	TN	EDR Historical Auto
3/331	1021042201		CLINE JACK	W/3 U3 HWT 4113		ETOWAH	IIN	Stations
27224	1000100671		CLINE IACK	W/C LIC LIMV 444E	**	ETOWAH	TN	EDR Historical Auto
37331	1022129671		CLINE JACK	W/S US HWY 4115		ETOWAH	IIN	Stations
37331	1014401430	TNR000029553	WAUPACA FOUNDRY INC PLANT 6	134 WAPACA DRIVE		ETOWAH	TN	RCRA-NonGen
				134 WAPACA DRIVE	**		TN	
37331	1004597976	TND987768298	ETOWAH UTIL	WAREHOUSE S TENNESSEE AVE		ETOWAH	TN	PADS
37331	1007446418	37331THYSS13	WAUPACA FOUNDRY INC PLANT 6	134 WAUPACA DR		ETOWAH	TN	TRIS, TSCA
37331	1016127640	110015680510	THYSSENKRUPP WAUPACA PLANT 6	134 WAUPACA DR		ETOWAH	TN	ICIS, FINDS
37331	S121927729		WAUPACA FOUNDRY, INC.	134 WAUPACA DR, P.O. BOX 510		ETOWAH	TN	AIRS
37331	1016463503		THYSSENKRUPP WAÚPACA PLANT 6	134 WAUPACA DR.		ETÓWAH	TN	ICIS
37331	S111314952		WAUPACA FOUNDRY, INC. PLANT 6	134 WAUPACA DRIVE		ETOWAH	TN	AIRS, NPDES, SPILLS
37331	1019886996		WAUPACA FOUNDRY, INC. PLANT 6	134 WAUPACA DRIVE		ETOWAH	TN	

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 07/17/2018 Source: EPA Telephone: N/A Date Data Arrived at EDR: 08/09/2018

Last EDR Contact: 08/09/2018 Date Made Active in Reports: 09/07/2018

Number of Days to Update: 29 Next Scheduled EDR Contact: 10/15/2018 Data Release Frequency: Quarterly

NPL Site Boundaries

EPA's Environmental Photographic Interpretation Center (EPIC)

Telephone: 202-564-7333

EPA Region 1 EPA Region 6

Telephone 617-918-1143 Telephone: 214-655-6659

EPA Region 3 EPA Region 7

Telephone 215-814-5418 Telephone: 913-551-7247

EPA Region 4 **EPA Region 8**

Telephone 404-562-8033 Telephone: 303-312-6774

EPA Region 5 EPA Region 9

Telephone 312-886-6686 Telephone: 415-947-4246

EPA Region 10

Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 07/17/2018 Date Data Arrived at EDR: 08/09/2018

Date Made Active in Reports: 09/07/2018

Number of Days to Update: 29

Source: EPA Telephone: N/A

Last EDR Contact: 08/09/2018

Next Scheduled EDR Contact: 10/15/2018 Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991 Date Data Arrived at EDR: 02/02/1994 Date Made Active in Reports: 03/30/1994

Number of Days to Update: 56

Source: EPA

Telephone: 202-564-4267 Last EDR Contact: 08/15/2011

Next Scheduled EDR Contact: 11/28/2011 Data Release Frequency: No Update Planned

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 07/17/2018 Date Data Arrived at EDR: 08/09/2018 Date Made Active in Reports: 09/07/2018

Number of Days to Update: 29

Source: EPA Telephone: N/A

Last EDR Contact: 08/09/2018

Next Scheduled EDR Contact: 10/15/2018 Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 11/07/2016 Date Data Arrived at EDR: 01/05/2017 Date Made Active in Reports: 04/07/2017

Number of Days to Update: 92

Source: Environmental Protection Agency Telephone: 703-603-8704

Last EDR Contact: 07/06/2018 Next Scheduled EDR Contact: 10/15/2018 Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 07/17/2018 Date Data Arrived at EDR: 08/09/2018 Date Made Active in Reports: 09/07/2018

Number of Days to Update: 29

Source: EPA Telephone: 800-424-9346 Last EDR Contact: 08/09/2018

Next Scheduled EDR Contact: 10/29/2018 Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 07/17/2018 Date Data Arrived at EDR: 08/09/2018 Date Made Active in Reports: 09/07/2018

Number of Days to Update: 29

Source: EPA

Telephone: 800-424-9346 Last EDR Contact: 08/09/2018

Next Scheduled EDR Contact: 10/29/2018 Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/01/2018 Date Data Arrived at EDR: 03/28/2018 Date Made Active in Reports: 06/22/2018

Number of Days to Update: 86

Source: EPA

Telephone: 800-424-9346 Last EDR Contact: 06/28/2018

Next Scheduled EDR Contact: 10/08/2018 Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/01/2018 Date Data Arrived at EDR: 03/28/2018 Date Made Active in Reports: 06/22/2018

Number of Days to Update: 86

Source: Environmental Protection Agency

Telephone: (404) 562-8651 Last EDR Contact: 06/28/2018

Next Scheduled EDR Contact: 10/08/2018
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/01/2018 Date Data Arrived at EDR: 03/28/2018 Date Made Active in Reports: 06/22/2018

Number of Days to Update: 86

Source: Environmental Protection Agency Telephone: (404) 562-8651

Last EDR Contact: 06/28/2018

Next Scheduled EDR Contact: 10/08/2018 Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/01/2018 Date Data Arrived at EDR: 03/28/2018 Date Made Active in Reports: 06/22/2018

Number of Days to Update: 86

Source: Environmental Protection Agency

Telephone: (404) 562-8651 Last EDR Contact: 06/28/2018

Next Scheduled EDR Contact: 10/08/2018
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/01/2018 Date Data Arrived at EDR: 03/28/2018 Date Made Active in Reports: 06/22/2018

Number of Days to Update: 86

Source: Environmental Protection Agency

Telephone: (404) 562-8651 Last EDR Contact: 06/28/2018

Next Scheduled EDR Contact: 10/08/2018 Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/14/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: Department of the Navy Telephone: 843-820-7326 Last EDR Contact: 07/16/2018

Next Scheduled EDR Contact: 11/26/2018 Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 02/13/2018 Date Data Arrived at EDR: 02/27/2018 Date Made Active in Reports: 05/11/2018

Number of Days to Update: 73

Source: Environmental Protection Agency

Telephone: 703-603-0695 Last EDR Contact: 08/28/2018

Next Scheduled EDR Contact: 12/10/2018 Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 02/13/2018 Date Data Arrived at EDR: 02/27/2018 Date Made Active in Reports: 05/11/2018

Number of Days to Update: 73

Source: Environmental Protection Agency

Telephone: 703-603-0695 Last EDR Contact: 08/28/2018

Next Scheduled EDR Contact: 12/10/2018

Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 03/19/2018 Date Data Arrived at EDR: 03/27/2018 Date Made Active in Reports: 06/08/2018

Number of Days to Update: 73

Source: National Response Center, United States Coast Guard

Telephone: 202-267-2180 Last EDR Contact: 06/27/2018

Next Scheduled EDR Contact: 10/08/2018 Data Release Frequency: Quarterly

State- and tribal - equivalent NPL

SHWS: Promulgated Sites

"Inactive hazardous substance sites that constitute an imminent, substantial danger" is an inactive hazardous substance site where there is a threat of danger to the public health, safety, or environment which is both real and presently existing. Such situations may include, but are not limited to one or more of the following: an immediate action is necessary to minimize an ongoing threat to the public health or pollution of the environment, an inactive hazardous substance site where there is an active release, where direct access to the hazardous substance is not controlled, or where incompatible hazardous substances are found in close proximity. Also known as Promulgated Sites List.

Date of Government Version: 06/27/2016 Date Data Arrived at EDR: 07/08/2016 Date Made Active in Reports: 09/16/2016

Number of Days to Update: 70

Source: Department of Environment & Conservation

Telephone: 615-532-0900 Last EDR Contact: 07/06/2018

Next Scheduled EDR Contact: 10/15/2018 Data Release Frequency: Semi-Annually

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: Solid Waste Disposal Facilities

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 06/12/2018 Date Data Arrived at EDR: 06/14/2018 Date Made Active in Reports: 07/25/2018

Number of Days to Update: 41

Source: Department of Environment and Conservation

Telephone: 615-532-0804 Last EDR Contact: 09/13/2018

Next Scheduled EDR Contact: 12/24/2018 Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST: Fund Eligible Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank site locations.

Date of Government Version: 05/14/2018 Date Data Arrived at EDR: 05/15/2018 Date Made Active in Reports: 06/01/2018

Number of Days to Update: 17

Source: Department of Environment and Conservation

Telephone: 615-532-0945 Last EDR Contact: 08/08/2018

Next Scheduled EDR Contact: 11/26/2018 Data Release Frequency: Semi-Annually

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/12/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA, Region 5 Telephone: 312-886-7439 Last EDR Contact: 07/27/2018

Next Scheduled EDR Contact: 11/05/2018

Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/12/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 07/27/2018

Next Scheduled EDR Contact: 11/05/2018 Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 04/10/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: Environmental Protection Agency

Telephone: 415-972-3372 Last EDR Contact: 07/27/2018

Next Scheduled EDR Contact: 11/05/2018 Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 04/25/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA Region 8 Telephone: 303-312-6271 Last EDR Contact: 07/27/2018

Next Scheduled EDR Contact: 11/05/2018 Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 04/24/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 07/27/2018

Next Scheduled EDR Contact: 11/05/2018 Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 04/01/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA Region 6 Telephone: 214-665-6597 Last EDR Contact: 07/27/2018

Next Scheduled EDR Contact: 11/05/2018 Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 05/08/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA Region 4 Telephone: 404-562-8677 Last EDR Contact: 07/27/2018

Next Scheduled EDR Contact: 11/05/2018 Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/13/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA Region 1 Telephone: 617-918-1313 Last EDR Contact: 07/27/2018

Next Scheduled EDR Contact: 11/05/2018 Data Release Frequency: Varies

LUST TRUST: LUST TRUST Fund Database

This list contains information on sites that had accidental releases of petroleum and are eligible for reimbursement

from the TN Petroleum UST Fund.

Date of Government Version: 08/07/2018 Date Data Arrived at EDR: 08/08/2018 Date Made Active in Reports: 08/24/2018

Number of Days to Update: 16

Source: Department of Environment & Conservation

Telephone: 615-532-0971 Last EDR Contact: 08/08/2018

Next Scheduled EDR Contact: 11/26/2018 Data Release Frequency: Semi-Annually

HIST_LUST CO: Leaking Underground Storage Tanks Sites

A listing of leaking underground storage tank site locations from the Columbia Field Office. The listing is no

longer updated.

Date of Government Version: 10/18/1994 Date Data Arrived at EDR: 10/24/1994 Date Made Active in Reports: 12/30/1994

Number of Days to Update: 67

Source: Department of Environmental Conservation, Columbia Field Office

Telephone: 931-380-3371 Last EDR Contact: 06/29/2009

Next Scheduled EDR Contact: 09/28/2009 Data Release Frequency: No Update Planned

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 05/15/2017 Date Data Arrived at EDR: 05/30/2017 Date Made Active in Reports: 10/13/2017

Number of Days to Update: 136

Source: FEMA

Telephone: 202-646-5797 Last EDR Contact: 07/11/2018

Next Scheduled EDR Contact: 10/22/2018 Data Release Frequency: Varies

UST: Facility and Tank Report

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 05/14/2018 Date Data Arrived at EDR: 05/15/2018 Date Made Active in Reports: 06/01/2018

Number of Days to Update: 17

Source: Department of Environment and Conservation

Telephone: 615-532-0945 Last EDR Contact: 08/08/2018

Next Scheduled EDR Contact: 11/26/2018 Data Release Frequency: Semi-Annually

AST: Aboveground Storage Tanks

Registered Aboveground Storage Tanks.

Date of Government Version: 10/01/1999 Date Data Arrived at EDR: 10/12/1999 Date Made Active in Reports: 11/05/1999

Number of Days to Update: 24

Source: Department of Environment and Conservation

Telephone: 615-532-0965 Last EDR Contact: 07/20/2018

Next Scheduled EDR Contact: 11/05/2018

Data Release Frequency: No Update Planned

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/12/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 07/27/2018

Next Scheduled EDR Contact: 11/05/2018 Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 04/25/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA Region 8 Telephone: 303-312-6137 Last EDR Contact: 07/27/2018

Next Scheduled EDR Contact: 11/05/2018 Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/24/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 07/27/2018

Next Scheduled EDR Contact: 11/05/2018 Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 04/01/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA Region 6 Telephone: 214-665-7591 Last EDR Contact: 07/27/2018

Next Scheduled EDR Contact: 11/05/2018 Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/12/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA Region 5 Telephone: 312-886-6136 Last EDR Contact: 07/27/2018

Next Scheduled EDR Contact: 11/05/2018 Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 05/08/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA Region 4 Telephone: 404-562-9424 Last EDR Contact: 07/27/2018

Next Scheduled EDR Contact: 11/05/2018 Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/13/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA, Region 1 Telephone: 617-918-1313 Last EDR Contact: 07/27/2018

Next Scheduled EDR Contact: 11/05/2018 Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 04/10/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA Region 9 Telephone: 415-972-3368 Last EDR Contact: 07/27/2018

Next Scheduled EDR Contact: 11/05/2018 Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

ENG CONTROLS: Engineering Control Sites Sites that have engineering controls.

Date of Government Version: 05/16/2018 Date Data Arrived at EDR: 05/22/2018 Date Made Active in Reports: 07/25/2018

Number of Days to Update: 64

Last

Source: Department of Environment & Conservation

Telephone: 615-532-0900 Last EDR Contact: 08/08/2018

Next Scheduled EDR Contact: 11/26/2018 Data Release Frequency: Semi-Annually

INST CONTROL: Institutional Control Sites Sites that have institutional controls.

Date of Government Version: 05/16/2018 Date Data Arrived at EDR: 05/22/2018 Date Made Active in Reports: 07/25/2018

Number of Days to Update: 64

Source: Department of Environment & Conservation

Telephone: 615-532-0900 Last EDR Contact: 08/08/2018

Next Scheduled EDR Contact: 11/26/2018 Data Release Frequency: Semi-Annually

State and tribal voluntary cleanup sites

VCP: Voluntary Cleanup, Oversight and Assistance Program Sites

The Voluntary Cleanup Oversight and Assistance Program (VOAP) offers people the opportunity to work proactively with state government to address necessary cleanup of a property to return it to productive use. In return for their efforts, participants can receive a No Further Action letter and a release of liability for areas where investigation and cleanup is conducted. The program is open to everyone with an interest in addressing contamination at a site.

Date of Government Version: 12/18/2017 Date Data Arrived at EDR: 01/05/2018 Date Made Active in Reports: 02/06/2018

Number of Days to Update: 32

Source: Department of Environmental & Conservation

Telephone: 615-532-0912 Last EDR Contact: 07/13/2018

Next Scheduled EDR Contact: 10/15/2018 Data Release Frequency: Semi-Annually

SRP: State Remediation Program List

The State Remediation Program (SRP) was established in 1994 within the Division of Solid Waste Management for the purpose of providing owners, prospective purchasers and other interested parties the means to voluntarily investigate, clean up or monitor contaminated sites not regulated under RCRA, CERCLA or the Tennessee Division of Underground Tanks (UST).

Date of Government Version: 12/18/2017 Date Data Arrived at EDR: 01/05/2018 Date Made Active in Reports: 02/06/2018

Number of Days to Update: 32

Source: Department of Environemtn & Conservation

Telephone: 615-532-0853 Last EDR Contact: 08/30/2018

Next Scheduled EDR Contact: 10/15/2018 Data Release Frequency: Semi-Annually

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015 Date Data Arrived at EDR: 09/29/2015 Date Made Active in Reports: 02/18/2016

Number of Days to Update: 142

Source: EPA, Region 1 Telephone: 617-918-1102 Last EDR Contact: 06/22/2018

Next Scheduled EDR Contact: 10/08/2018 Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008 Date Data Arrived at EDR: 04/22/2008 Date Made Active in Reports: 05/19/2008

Number of Days to Update: 27

Source: EPA, Region 7 Telephone: 913-551-7365 Last EDR Contact: 04/20/2009

Next Scheduled EDR Contact: 07/20/2009 Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Superfund VOAP Listing

Brownfields sites included on the Superfund Voluntary Cleanup, Oversight & Assistance Program listing.

Date of Government Version: 06/27/2016 Date Data Arrived at EDR: 07/08/2016 Date Made Active in Reports: 09/14/2016

Number of Days to Update: 68

Source: Department of Environment & Conservation

Telephone: 615-532-0912 Last EDR Contact: 06/29/2018

Next Scheduled EDR Contact: 10/15/2018

Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 03/19/2018 Date Data Arrived at EDR: 03/21/2018 Date Made Active in Reports: 06/08/2018

Number of Days to Update: 79

Source: Environmental Protection Agency Telephone: 202-566-2777

Last EDR Contact: 06/20/2018

Next Scheduled EDR Contact: 10/01/2018 Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY: Recycling Facilities Listing
A listing of recycling facility locations.

Date of Government Version: 06/12/2018 Date Data Arrived at EDR: 06/14/2018 Date Made Active in Reports: 07/25/2018

Number of Days to Update: 41

Source: Department of Environment & Conservation

Telephone: 615-532-8657 Last EDR Contact: 09/13/2018

Next Scheduled EDR Contact: 12/24/2018 Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998 Date Data Arrived at EDR: 12/03/2007 Date Made Active in Reports: 01/24/2008

Number of Days to Update: 52

Source: Environmental Protection Agency

Telephone: 703-308-8245 Last EDR Contact: 07/30/2018

Next Scheduled EDR Contact: 11/12/2018 Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258

Subtitle D Criteria.

Date of Government Version: 06/30/1985 Date Data Arrived at EDR: 08/09/2004 Date Made Active in Reports: 09/17/2004

Number of Days to Update: 39

Source: Environmental Protection Agency

Telephone: 800-424-9346 Last EDR Contact: 06/09/2004 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009 Date Data Arrived at EDR: 05/07/2009 Date Made Active in Reports: 09/21/2009

Number of Days to Update: 137

Source: EPA, Region 9 Telephone: 415-947-4219 Last EDR Contact: 07/17/2018

Next Scheduled EDR Contact: 11/05/2018

Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014 Date Data Arrived at EDR: 08/06/2014 Date Made Active in Reports: 01/29/2015

Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service

Telephone: 301-443-1452 Last EDR Contact: 08/03/2018

Next Scheduled EDR Contact: 11/12/2018 Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 02/22/2018
Date Data Arrived at EDR: 03/01/2018
Date Made Active in Reports: 05/11/2018

Number of Days to Update: 71

Source: Drug Enforcement Administration

Telephone: 202-307-1000 Last EDR Contact: 05/30/2018

Next Scheduled EDR Contact: 09/10/2018

Data Release Frequency: No Update Planned

CDL: Registry of Contaminated Properties

Pursuant to TCA 68212509 the following properties have been quarantined because of methamphetamine production, but have not been cleaned and certified within the 60day time frame allotted by the statute. These properties are hereby registered by the Tennessee Department of Environment and Conservation as unremediated methamphetamine sites. This is not a comprehensive list of quarantined properties. These are properties that TDEC has been notified as being quarantined, but have not been cleaned within the 60 day grace period. Other properties where methamphetamine production residues are a concern may not have been quarantined, may not have been reported to TDEC, or may not have passed the 60day grace

Date of Government Version: 07/01/2018 Date Data Arrived at EDR: 08/02/2018 Date Made Active in Reports: 08/24/2018

Number of Days to Update: 22

Source: Department of Environment & Conservation

Telephone: 615-532-0900 Last EDR Contact: 08/02/2018

Next Scheduled EDR Contact: 11/12/2018 Data Release Frequency: Quarterly

PRIORITY CLEANERS: DCERP Remediation Sites Listing

Drycleaner Environmental Response Program remediation sites.

Date of Government Version: 01/29/2018 Date Data Arrived at EDR: 01/30/2018 Date Made Active in Reports: 03/07/2018

Number of Days to Update: 36

Source: Department of Environment & Conservation

Telephone: 615-253-3876 Last EDR Contact: 07/13/2018

Next Scheduled EDR Contact: 10/29/2018 Data Release Frequency: Annually

DEL SHWS: Deleted State Hazardous Waste Sites

A listing of sites removed from the Promulgated Sites Listing.

Date of Government Version: 06/27/2016 Date Data Arrived at EDR: 07/08/2016 Date Made Active in Reports: 09/14/2016

Number of Days to Update: 68

Source: Department of Environment & Conservation

Telephone: 615-532-0900 Last EDR Contact: 07/06/2018

Next Scheduled EDR Contact: 10/15/2018 Data Release Frequency: Varies

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 02/22/2018 Date Data Arrived at EDR: 03/01/2018 Date Made Active in Reports: 05/11/2018

Number of Days to Update: 71

Source: Drug Enforcement Administration

Telephone: 202-307-1000 Last EDR Contact: 08/28/2018

Next Scheduled EDR Contact: 12/10/2018 Data Release Frequency: Quarterly

Local Lists of Registered Storage Tanks

HIST UST: Underground Storage Tank Database

This database is no longer updated by the agency. It contains records and detail fields that the current UST database does not.

Date of Government Version: 05/14/2018 Date Data Arrived at EDR: 05/15/2018 Date Made Active in Reports: 06/01/2018

Number of Days to Update: 17

Source: Department of Environment & Conservation

Telephone: 615-532-0945 Last EDR Contact: 08/08/2018

Next Scheduled EDR Contact: 11/26/2018
Data Release Frequency: No Update Planned

Local Land Records

LIENS: Liens Information

A listing of sites with environmental liens information.

Date of Government Version: 03/10/2015 Date Data Arrived at EDR: 04/07/2015 Date Made Active in Reports: 04/30/2015

Number of Days to Update: 23

Source: Department of Environment & Conservation

Telephone: 615-532-0900 Last EDR Contact: 06/29/2018

Next Scheduled EDR Contact: 10/15/2018 Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 05/13/2018 Date Data Arrived at EDR: 05/30/2018 Date Made Active in Reports: 06/29/2018

Number of Days to Update: 30

Source: Environmental Protection Agency

Telephone: 202-564-6023 Last EDR Contact: 08/09/2018

Next Scheduled EDR Contact: 11/05/2018 Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/26/2018 Date Data Arrived at EDR: 03/27/2018 Date Made Active in Reports: 06/08/2018

Number of Days to Update: 73

Source: U.S. Department of Transportation

Telephone: 202-366-4555 Last EDR Contact: 03/27/2018

Next Scheduled EDR Contact: 07/09/2018 Data Release Frequency: Quarterly

SPILLS: State Spills

A listing of spills locations.

Date of Government Version: 01/05/2015 Date Data Arrived at EDR: 01/06/2015 Date Made Active in Reports: 02/10/2015

Number of Days to Update: 35

Source: Department of Environment & Conservation

Telephone: 615-532-0109 Last EDR Contact: 06/29/2018

Next Scheduled EDR Contact: 10/15/2018 Data Release Frequency: Varies

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/01/2018 Date Data Arrived at EDR: 03/28/2018 Date Made Active in Reports: 06/22/2018

Number of Days to Update: 86

Source: Environmental Protection Agency

Telephone: (404) 562-8651 Last EDR Contact: 06/28/2018

Next Scheduled EDR Contact: 10/08/2018 Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015 Date Data Arrived at EDR: 07/08/2015 Date Made Active in Reports: 10/13/2015

Number of Days to Update: 97

Source: U.S. Army Corps of Engineers

Telephone: 202-528-4285 Last EDR Contact: 08/24/2018

Next Scheduled EDR Contact: 12/03/2018 Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 11/10/2006 Date Made Active in Reports: 01/11/2007

Number of Days to Update: 62

Source: USGS Telephone: 888-275-8747

Last EDR Contact: 07/11/2018 Next Scheduled EDR Contact: 10/22/2018

Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 02/06/2006 Date Made Active in Reports: 01/11/2007

Number of Days to Update: 339

Source: U.S. Geological Survey Telephone: 888-275-8747 Last EDR Contact: 07/13/2018

Next Scheduled EDR Contact: 10/22/2018

Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017 Date Data Arrived at EDR: 02/03/2017 Date Made Active in Reports: 04/07/2017

Number of Days to Update: 63

Source: Environmental Protection Agency

Telephone: 615-532-8599 Last EDR Contact: 08/17/2018

Next Scheduled EDR Contact: 11/26/2018 Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 03/01/2018 Date Data Arrived at EDR: 03/27/2018 Date Made Active in Reports: 06/22/2018

Number of Days to Update: 87

Source: Environmental Protection Agency

Telephone: 202-566-1917 Last EDR Contact: 06/27/2018

Next Scheduled EDR Contact: 10/08/2018 Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013 Date Data Arrived at EDR: 03/21/2014 Date Made Active in Reports: 06/17/2014

Number of Days to Update: 88

Source: Environmental Protection Agency

Telephone: 617-520-3000 Last EDR Contact: 08/03/2018

Next Scheduled EDR Contact: 11/19/2018 Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017 Date Data Arrived at EDR: 05/08/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 73

Source: Environmental Protection Agency

Telephone: 703-308-4044 Last EDR Contact: 08/10/2018

Next Scheduled EDR Contact: 11/19/2018 Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Source: EPA

Date of Government Version: 12/31/2016 Date Data Arrived at EDR: 06/21/2017 Date Made Active in Reports: 01/05/2018 Number of Days to Update: 198

Telephone: 202-260-5521 Last EDR Contact: 06/22/2018

Next Scheduled EDR Contact: 10/01/2018 Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Source: EPA

Date of Government Version: 12/31/2016 Date Data Arrived at EDR: 01/10/2018 Date Made Active in Reports: 01/12/2018

Telephone: 202-566-0250 Last EDR Contact: 08/24/2018

Number of Days to Update: 2

Next Scheduled EDR Contact: 12/03/2018 Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009 Date Data Arrived at EDR: 12/10/2010 Date Made Active in Reports: 02/25/2011

Date Made Active in Reports: 02/25/20 Number of Days to Update: 77 Source: EPA

Telephone: 202-564-4203 Last EDR Contact: 07/27/2018

Next Scheduled EDR Contact: 11/05/2018 Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 05/13/2018 Date Data Arrived at EDR: 05/30/2018 Date Made Active in Reports: 06/29/2018

Number of Days to Update: 30

Source: EPA

Telephone: 703-416-0223 Last EDR Contact: 09/07/2018

Next Scheduled EDR Contact: 12/17/2018 Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 05/01/2018
Date Data Arrived at EDR: 05/17/2018
Date Made Active in Reports: 09/07/2018

Number of Days to Update: 113

Source: Environmental Protection Agency

Telephone: 202-564-8600 Last EDR Contact: 07/20/2018

Next Scheduled EDR Contact: 11/05/2018 Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995 Date Data Arrived at EDR: 07/03/1995 Date Made Active in Reports: 08/07/1995

Number of Days to Update: 35

Source: EPA

Telephone: 202-564-4104 Last EDR Contact: 06/02/2008

Next Scheduled EDR Contact: 09/01/2008 Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013 Date Data Arrived at EDR: 10/17/2014 Date Made Active in Reports: 10/20/2014

Number of Days to Update: 3

Source: EPA

Telephone: 202-564-6023 Last EDR Contact: 08/09/2018

Next Scheduled EDR Contact: 11/19/2018 Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 06/01/2017 Date Data Arrived at EDR: 06/09/2017 Date Made Active in Reports: 10/13/2017

Number of Days to Update: 126

Source: EPA

Telephone: 202-566-0500 Last EDR Contact: 07/13/2018

Next Scheduled EDR Contact: 10/22/2018 Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016 Date Data Arrived at EDR: 11/23/2016 Date Made Active in Reports: 02/10/2017

Number of Days to Update: 79

Source: Environmental Protection Agency

Telephone: 202-564-2501 Last EDR Contact: 07/09/2018

Next Scheduled EDR Contact: 10/22/2018 Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009 Date Data Arrived at EDR: 04/16/2009 Date Made Active in Reports: 05/11/2009

Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances

Telephone: 202-566-1667 Last EDR Contact: 08/18/2017

Next Scheduled EDR Contact: 12/04/2017 Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009 Date Data Arrived at EDR: 04/16/2009 Date Made Active in Reports: 05/11/2009

Number of Days to Update: 25

Source: EPA Telephone: 202-566-1667 Last EDR Contact: 08/18/2017

Next Scheduled EDR Contact: 12/04/2017 Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/2016 Date Data Arrived at EDR: 09/08/2016 Date Made Active in Reports: 10/21/2016

Number of Days to Update: 43

Source: Nuclear Regulatory Commission

Telephone: 301-415-7169 Last EDR Contact: 07/23/2018

Next Scheduled EDR Contact: 11/05/2018 Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 08/07/2009 Date Made Active in Reports: 10/22/2009

Number of Days to Update: 76

Source: Department of Energy Telephone: 202-586-8719 Last EDR Contact: 09/07/2018

Next Scheduled EDR Contact: 12/17/2018 Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014 Date Data Arrived at EDR: 09/10/2014 Date Made Active in Reports: 10/20/2014

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: N/A

Last EDR Contact: 09/04/2018

Next Scheduled EDR Contact: 12/17/2018 Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 05/24/2017 Date Data Arrived at EDR: 11/30/2017 Date Made Active in Reports: 12/15/2017

Number of Days to Update: 15

Source: Environmental Protection Agency Telephone: 202-566-0517

Last EDR Contact: 07/27/2018

Next Scheduled EDR Contact: 11/05/2018 Data Release Frequency: Varies

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 04/03/2018 Date Data Arrived at EDR: 04/05/2018 Date Made Active in Reports: 06/29/2018

Number of Days to Update: 85

Source: Environmental Protection Agency

Telephone: 202-343-9775 Last EDR Contact: 07/05/2018

Next Scheduled EDR Contact: 10/15/2018 Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: 202-564-2501 Last EDR Contact: 12/17/2007

Next Scheduled EDR Contact: 03/17/2008 Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/2007

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: 202-564-2501 Last EDR Contact: 12/17/2008

Next Scheduled EDR Contact: 03/17/2008 Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012 Date Data Arrived at EDR: 08/07/2012 Date Made Active in Reports: 09/18/2012

Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety

Telephone: 202-366-4595 Last EDR Contact: 08/09/2018

Next Scheduled EDR Contact: 11/12/2018 Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 03/31/2018 Date Data Arrived at EDR: 04/16/2018 Date Made Active in Reports: 06/29/2018

Number of Days to Update: 74

Source: Department of Justice, Consent Decree Library

Telephone: Varies

Last EDR Contact: 07/09/2018

Next Scheduled EDR Contact: 10/01/2018 Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2015 Date Data Arrived at EDR: 02/22/2017 Date Made Active in Reports: 09/28/2017

Number of Days to Update: 218

Source: EPA/NTIS Telephone: 800-424-9346 Last EDR Contact: 08/24/2018

Next Scheduled EDR Contact: 12/03/2018 Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater

than 640 acres.

Date of Government Version: 12/31/2014 Date Data Arrived at EDR: 07/14/2015 Date Made Active in Reports: 01/10/2017

Number of Days to Update: 546

Source: USGS

Telephone: 202-208-3710 Last EDR Contact: 07/11/2018

Next Scheduled EDR Contact: 10/22/2018 Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 12/23/2016 Date Data Arrived at EDR: 12/27/2016 Date Made Active in Reports: 02/17/2017

Number of Days to Update: 52

Source: Department of Energy Telephone: 202-586-3559 Last EDR Contact: 09/11/2018

Next Scheduled EDR Contact: 11/19/2018 Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 06/23/2017 Date Data Arrived at EDR: 10/11/2017 Date Made Active in Reports: 11/03/2017

Number of Days to Update: 23

Source: Department of Energy Telephone: 505-845-0011 Last EDR Contact: 08/20/2018

Next Scheduled EDR Contact: 12/03/2018 Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 05/13/2018 Date Data Arrived at EDR: 05/30/2018 Date Made Active in Reports: 06/29/2018

Number of Days to Update: 30

Source: Environmental Protection Agency

Telephone: 703-603-8787 Last EDR Contact: 08/09/2018

Next Scheduled EDR Contact: 10/15/2018 Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001 Date Data Arrived at EDR: 10/27/2010 Date Made Active in Reports: 12/02/2010

Number of Days to Update: 36

Source: American Journal of Public Health

Telephone: 703-305-6451 Last EDR Contact: 12/02/2009 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Telephone: 202-564-2496

Last EDR Contact: 09/26/2017

Date of Government Version: 10/12/2016 Date Data Arrived at EDR: 10/26/2016 Date Made Active in Reports: 02/03/2017

Number of Days to Update: 100

US AIRS MINOR: Air Facility System Data A listing of minor source facilities.

Date of Government Version: 10/12/2016 Date Data Arrived at EDR: 10/26/2016 Date Made Active in Reports: 02/03/2017

Number of Days to Update: 100

Source: EPA

Source: EPA

Telephone: 202-564-2496 Last EDR Contact: 09/26/2017

Next Scheduled EDR Contact: 01/08/2018 Data Release Frequency: Annually

Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 05/03/2018 Date Data Arrived at EDR: 05/31/2018 Date Made Active in Reports: 06/29/2018

Number of Days to Update: 29

Source: Department of Labor, Mine Safety and Health Administration

Telephone: 303-231-5959 Last EDR Contact: 08/29/2018

Next Scheduled EDR Contact: 12/10/2018 Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005 Date Data Arrived at EDR: 02/29/2008 Date Made Active in Reports: 04/18/2008

Number of Days to Update: 49

Source: USGS Telephone: 703-648-7709 Last EDR Contact: 08/31/2018

Next Scheduled EDR Contact: 12/10/2018 Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011 Date Data Arrived at EDR: 06/08/2011 Date Made Active in Reports: 09/13/2011

Number of Days to Update: 97

Source: USGS

Telephone: 703-648-7709 Last EDR Contact: 08/31/2018

Next Scheduled EDR Contact: 12/10/2018 Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 03/08/2018 Date Data Arrived at EDR: 03/13/2018 Date Made Active in Reports: 06/08/2018

Number of Days to Update: 87

Source: Department of Interior Telephone: 202-208-2609 Last EDR Contact: 09/10/2018

Next Scheduled EDR Contact: 12/24/2018 Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 02/21/2018 Date Data Arrived at EDR: 02/23/2018 Date Made Active in Reports: 03/23/2018

Number of Days to Update: 28

Source: EPA Telephone: (404) 562-9900

Last EDR Contact: 09/05/2018

Next Scheduled EDR Contact: 12/17/2018 Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 01/04/2018 Date Data Arrived at EDR: 01/19/2018 Date Made Active in Reports: 04/13/2018

Number of Days to Update: 84

Source: Environmental Protection Agency

Telephone: 202-564-0527 Last EDR Contact: 08/31/2018

Next Scheduled EDR Contact: 12/10/2018 Data Release Frequency: Varies

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 09/30/2016 Date Data Arrived at EDR: 10/31/2017 Date Made Active in Reports: 01/12/2018

Number of Days to Update: 73

Source: Department of Defense Telephone: 703-704-1564 Last EDR Contact: 07/13/2018

Next Scheduled EDR Contact: 10/29/2018 Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 02/25/2018 Date Data Arrived at EDR: 03/17/2018 Date Made Active in Reports: 06/08/2018

Number of Days to Update: 83

Source: Environmental Protection Agency

Telephone: 202-564-2280 Last EDR Contact: 09/05/2018

Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Quarterly

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 05/21/2018 Date Data Arrived at EDR: 05/23/2018 Date Made Active in Reports: 09/07/2018

Number of Days to Update: 107

Source: EPA

Telephone: 800-385-6164 Last EDR Contact: 08/22/2018

Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Quarterly

AIRS: Listing of Permitted Sources

A listing of permitted sources issued by the Division of Air Pollution Control.

Date of Government Version: 05/01/2018 Date Data Arrived at EDR: 05/03/2018 Date Made Active in Reports: 06/04/2018

Number of Days to Update: 32

Source: Department of Environment & Conservation

Telephone: 615-532-0545 Last EDR Contact: 07/25/2018

Next Scheduled EDR Contact: 11/12/2018

Data Release Frequency: Varies

DRYCLEANERS: Registered Facilities List

A list of all active registered drycleaner facilities, There may be some inactive facilities included.

Date of Government Version: 03/21/2018 Date Data Arrived at EDR: 04/18/2018 Date Made Active in Reports: 06/01/2018

Number of Days to Update: 44

Source: Dept. of Environment & Conservation

Telephone: 615-532-0900 Last EDR Contact: 07/20/2018

Next Scheduled EDR Contact: 10/29/2018 Data Release Frequency: Annually

LEAD CERT: Lead Safe Housing Registry

A listing of Tennessee properties that have achieved a lead safe designation.

Date of Government Version: 07/31/2018 Date Data Arrived at EDR: 08/02/2018 Date Made Active in Reports: 08/24/2018

Number of Days to Update: 22

Source: Department of Environment & Conservation

Telephone: 615-532-8011 Last EDR Contact: 08/02/2018

Next Scheduled EDR Contact: 12/17/2018

Data Release Frequency: Varies

NPDES: Permitted Facility Listing

A listing of permitted wastewater facilities.

Date of Government Version: 05/21/2018 Date Data Arrived at EDR: 05/23/2018 Date Made Active in Reports: 07/25/2018

Number of Days to Update: 63

Source: Department of Environment & Conservation

Telephone: 615-253-2245 Last EDR Contact: 08/22/2018

Next Scheduled EDR Contact: 12/03/2018 Data Release Frequency: Quarterly

VAPOR: Vapor Intrusion

A listing of sites that have a potential for vapor intrusion

Date of Government Version: 05/16/2018 Date Data Arrived at EDR: 05/22/2018 Date Made Active in Reports: 07/25/2018

Number of Days to Update: 64

Source: Department of Environment & Conservation

Telephone: 615-532-0930 Last EDR Contact: 07/06/2018

Next Scheduled EDR Contact: 10/22/2018 Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A Date Data Arrived at EDR: N/A Date Made Active in Reports: N/A

Number of Days to Update: N/A

Source: EDR, Inc. Telephone: N/A Last EDR Contact: N/A

Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A Date Data Arrived at EDR: N/A Date Made Active in Reports: N/A Number of Days to Update: N/A Source: EDR, Inc. Telephone: N/A Last EDR Contact: N/A

Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A Source: EDR, Inc.
Date Data Arrived at EDR: N/A Telephone: N/A
Date Made Active in Reports: N/A Last EDR Contact: N/A

Number of Days to Update: N/A Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environment and Conservation in Tennessee.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/15/2014
Number of Days to Update: 198

Source: Department of Environment and Conservation

Telephone: N/A

Last EDR Contact: 06/01/2012 Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists.

Compiled from Records formerly available from the Department of Environment and Conservation in Tennessee.

Date of Government Version: N/A Date Data Arrived at EDR: 07/01/2013 Date Made Active in Reports: 01/03/2014 Number of Days to Update: 186

Source: Department of Environment and Conservation

Telephone: N/A

Last EDR Contact: 06/01/2012 Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 08/10/2018 Date Data Arrived at EDR: 08/10/2018 Date Made Active in Reports: 09/10/2018

Number of Days to Update: 31

Source: Department of Energy & Environmental Protection

Telephone: 860-424-3375 Last EDR Contact: 08/09/2018

Next Scheduled EDR Contact: 11/26/2018 Data Release Frequency: No Update Planned

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD

facility.

Date of Government Version: 07/01/2018 Date Data Arrived at EDR: 08/01/2018 Date Made Active in Reports: 08/31/2018

Number of Days to Update: 30

Source: Department of Environmental Conservation

Telephone: 518-402-8651 Last EDR Contact: 08/01/2018

Next Scheduled EDR Contact: 11/12/2018 Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2016 Date Data Arrived at EDR: 07/25/2017 Date Made Active in Reports: 09/25/2017

Number of Days to Update: 62

Source: Department of Environmental Protection

Telephone: 717-783-8990 Last EDR Contact: 07/12/2018

Next Scheduled EDR Contact: 10/29/2018 Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2017 Date Data Arrived at EDR: 02/23/2018 Date Made Active in Reports: 04/09/2018

Number of Days to Update: 45

Source: Department of Environmental Management

Telephone: 401-222-2797 Last EDR Contact: 08/21/2018

Next Scheduled EDR Contact: 12/03/2018 Data Release Frequency: Annually

VT MANIFEST: Hazardous Waste Manifest Data Hazardous waste manifest information.

Date of Government Version: 05/16/2018 Date Data Arrived at EDR: 05/23/2018 Date Made Active in Reports: 07/03/2018

Number of Days to Update: 41

Source: Department of Environmental Conservation

Telephone: 802-241-3443 Last EDR Contact: 07/16/2018

Next Scheduled EDR Contact: 10/29/2018 Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2017 Date Data Arrived at EDR: 06/15/2018 Date Made Active in Reports: 07/09/2018

Number of Days to Update: 24

Source: Department of Natural Resources

Telephone: N/A

Last EDR Contact: 09/06/2018

Next Scheduled EDR Contact: 12/24/2018 Data Release Frequency: Annually

Oil/Gas Pipelines

Source: PennWell Corporation

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data

Source: PennWell Corporation

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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services,

a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary

and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Child Care Listing Source: Department Of Human Services

Telephone: 615-313-4778

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory

Source: Department of Environment & Conservation

Telephone: 651-532-0052

Current USGS 7.5 Minute Topographic Map Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK®-PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

ETOWAH FUTURE HOUSING SITE COUNTY ROAD 802 ETOWAH, TN 37331

TARGET PROPERTY COORDINATES

Latitude (North): 35.315645 - 35° 18' 56.32" Longitude (West): 84.536855 - 84° 32' 12.68"

Universal Tranverse Mercator: Zone 16 UTM X (Meters): 723927.8 UTM Y (Meters): 3910632.8

Elevation: 838 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map: 5942143 ETOWAH, TN

Version Date: 2013

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

- 1. Groundwater flow direction, and
- 2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

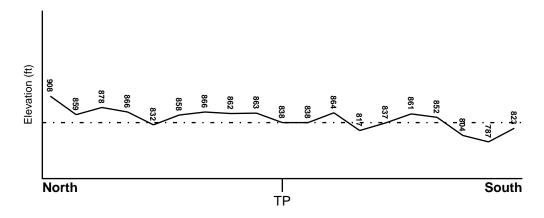
TOPOGRAPHIC INFORMATION

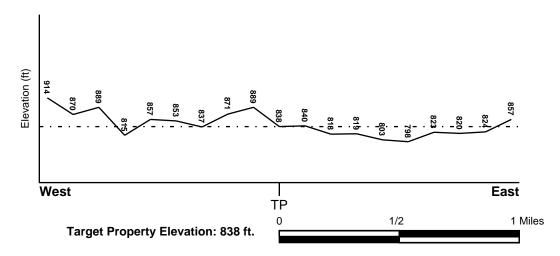
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General ESE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property FEMA Source Type

47107C0308D FEMA FIRM Flood data

Additional Panels in search area: FEMA Source Type

47107C0325D FEMA FIRM Flood data 47107C0309D FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property Data Coverage

ETOWAH YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

 MAP ID
 FROM TP
 GROUNDWATER FLOW

 Not Reported
 GROUNDWATER FLOW

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

GEOLOGIC AGE IDENTIFICATION

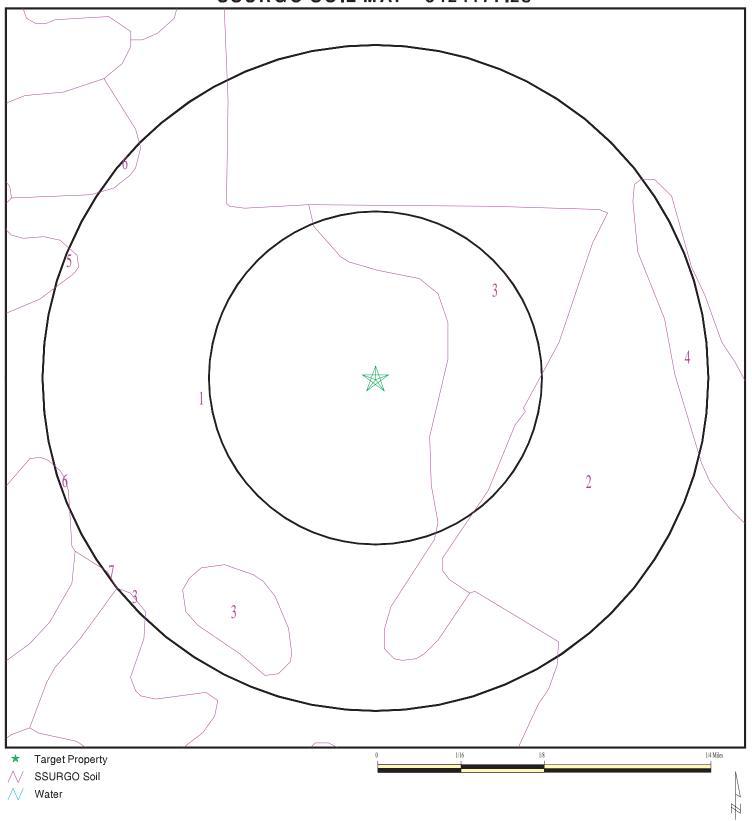
Era: Paleozoic Category: Stratified Sequence

System: Ordovician Series: Ordovician

Code: O (decoded above as Era, System & Series)

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 5424177.2s



SITE NAME: Etowah Future Housing Site
ADDRESS: County Road 802
Etowah TN 37331
LAT/LONG: 35.315645 / 84.536855

CLIENT: S&ME
CONTACT: Barry Burnette
INQUIRY#: 5424177.2s

DATE: September 14, 2018 9:41 am

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: COGHILL

Soil Surface Texture: loamy sand

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep,

moderately well and well drained soils with moderately coarse

textures.

Soil Drainage Class: Well drained

Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information											
	Bou	indary		Classit	ication	Saturated hydraulic					
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec					
1	38 inches	77 inches	loamy sand	Not reported	Not reported	Max: 42.34 Min: 14.11	Max: 6 Min: 4.5				
2	29 inches	38 inches	sandy clay loam	Not reported	Not reported	Max: 42.34 Min: 14.11	Max: 6 Min: 4.5				
3	7 inches	29 inches	clay	Not reported	Not reported	Max: 42.34 Min: 14.11	Max: 6 Min: 4.5				
4	0 inches	7 inches	sandy loam	Not reported	Not reported	Max: 42.34 Min: 14.11	Max: 6 Min: 4.5				

Soil Map ID: 2

Soil Component Name: UDORTHENTS

Soil Surface Texture:

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep,

moderately well and well drained soils with moderately coarse

textures.

Soil Drainage Class:

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

	Soil Layer Information								
	Boundary			Classif	ication	Saturated hydraulic			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		Soil Reaction (pH)		
1	0 inches	7 inches		Not reported	Not reported	Max: 14.11 Min: 0.42	Max: 7.3 Min: 3.6		

Soil Map ID: 3

Soil Component Name: **CORRYTON**

Soil Surface Texture: channery silty clay loam

Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse Hydrologic Group:

textures.

Soil Drainage Class: Well drained

Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches Depth to Watertable Min: > 0 inches

	Soil Layer Information									
	Bou	ındary		Classification		Saturated hydraulic				
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil					
1	40 inches	75 inches	channery silty	Not reported	Not reported	Max: 4.23 Min: 1.41	Max: 6 Min: 4.5			
2	0 inches	9 inches	silt loam	Not reported	Not reported	Max: 4.23 Min: 1.41	Max: 6 Min: 4.5			
3	9 inches	16 inches	silty clay loam	Not reported	Not reported	Max: 4.23 Min: 1.41	Max: 6 Min: 4.5			

	Soil Layer Information									
	Boundary			Classification		Saturated hydraulic				
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		Soil Reaction (pH)			
4	16 inches	40 inches	clay	Not reported	Not reported	Max: 4.23 Min: 1.41	Max: 6 Min: 4.5			

Soil Map ID: 4

Soil Component Name: URBAN LAND

Soil Surface Texture: channery silty clay loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep,

moderately well and well drained soils with moderately coarse

textures.

Soil Drainage Class: Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 100 inches

No Layer Information available.

Soil Map ID: 5

Soil Component Name: COGHILL

Soil Surface Texture: sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep,

moderately well and well drained soils with moderately coarse

textures.

Soil Drainage Class: Well drained

Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

	Soil Layer Information										
	Bou	ındary		Classi	fication	Saturated hydraulic					
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)				
1	0 inches	7 inches	sandy loam	Not reported	Not reported	Max: 42.34 Min: 4.23	Max: 6 Min: 4.5				
2	7 inches	29 inches	clay	Not reported	Not reported	Max: 42.34 Min: 4.23	Max: 6 Min: 4.5				
3	29 inches	38 inches	sandy clay loam	Not reported	Not reported	Max: 42.34 Min: 4.23	Max: 6 Min: 4.5				
4	38 inches	77 inches	loamy sand	Not reported	Not reported	Max: 42.34 Min: 4.23	Max: 6 Min: 4.5				

Soil Map ID: 6

Soil Component Name: NONABURG

Soil Surface Texture: silty clay loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high

water table, or are shallow to an impervious layer.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

	Soil Layer Information										
	Вои	Boundary Classification		Saturated hydraulic							
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)				
1	0 inches	1 inches	silty clay loam	Not reported	Not reported	Max: 1.41 Min: 0	Max: Min:				
2	1 inches	9 inches	clay	Not reported	Not reported	Max: 1.41 Min: 0	Max: Min:				
3	9 inches	39 inches	weathered bedrock	Not reported	Not reported	Max: 1.41 Min: 0	Max: Min:				

Soil Map ID: 7

Soil Component Name: NEEDMORE

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward

movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

	Soil Layer Information										
	Boundary			Classi	fication	Saturated hydraulic					
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec					
1	0 inches	7 inches	silt loam	Not reported	Not reported	Max: 1.41 Min: 0	Max: Min:				
2	7 inches	11 inches	silty clay loam	Not reported	Not reported	Max: 1.41 Min: 0	Max: Min:				
3	11 inches	31 inches	clay loam	Not reported	Not reported	Max: 1.41 Min: 0	Max: Min:				
4	31 inches	35 inches	channery silty clay	Not reported	Not reported	Max: 1.41 Min: 0	Max: Min:				
5	35 inches	40 inches	weathered bedrock	Not reported	Not reported	Max: 1.41 Min: 0	Max: Min:				

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE SEARCH DISTANCE (miles)

Federal USGS 1.000

Federal FRDS PWS Nearest PWS within 1 mile

State Database 1.000

FEDERAL USGS WELL INFORMATION

MAP ID WELL ID LOCATION FROM TP

No Wells Found

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

 MAP ID
 WELL ID
 FROM TP

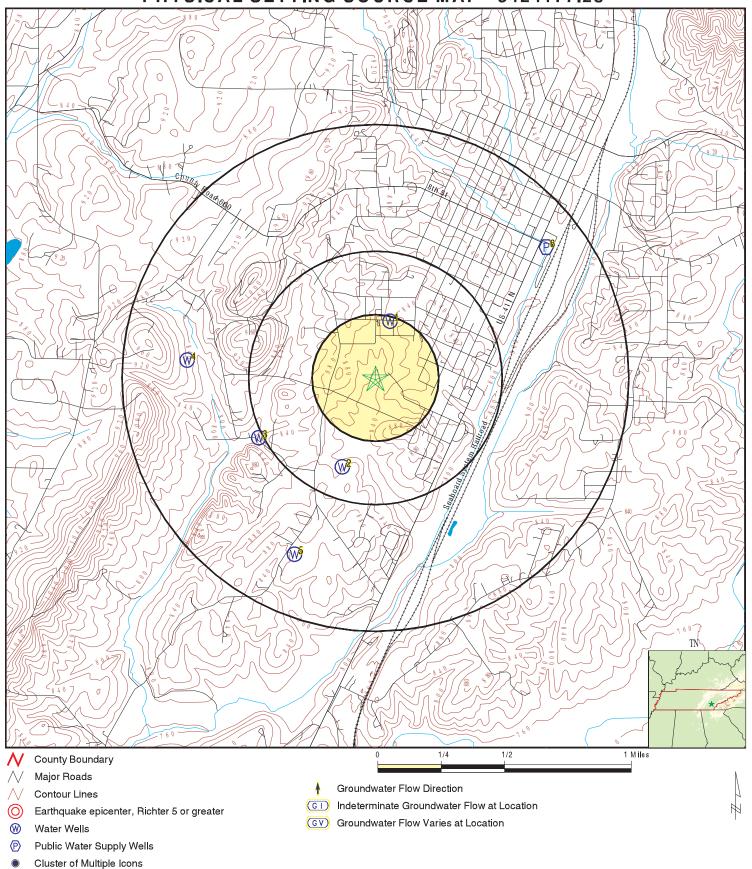
 6
 TN0003431
 1/2 - 1 Mile NE

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

WELL ID	LOCATION FROM TP
TN7000000017852	1/8 - 1/4 Mile NNE
TN700000017878	1/4 - 1/2 Mile SSW
TN700000016882	1/2 - 1 Mile WSW
TN700000019100	1/2 - 1 Mile West
TN700000015067	1/2 - 1 Mile SSW
	TN70000000017852 TN7000000017878 TN7000000016882 TN7000000019100

PHYSICAL SETTING SOURCE MAP - 5424177.2s



SITE NAME: Etowah Future Housing Site

ADDRESS: County Road 802

Etowah TN 37331 LAT/LONG: 35.315645 / 84.536855

CLIENT: S&ME CONTACT: Barry Burnette

INQUIRY #: 5424177.2s

DATE: September 14, 2018 9:40 am

GEOCHECK®-PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation

1 TN WELLS TN700000017852

Database

TN WELLS

EDR ID Number

TN700000017878

1/8 - 1/4 Mile Higher

 Well #:
 20131744
 License Code:
 609

 Total Depth:
 275
 Est Yield:
 0

 Quad #:
 0125SE6
 Driller Tag #:
 GEO2728

 Casing Depth:
 0
 Depth to Water:
 70

Intended Well Use: Not Reported

2

SSW 1/4 - 1/2 Mile Higher

Intended Well Use:

 Well #:
 20140329
 License Code:
 608

 Total Depth:
 160
 Est Yield:
 20

 Quad #:
 0125SE6
 Driller Tag #:
 D0099748

 Casing Depth:
 64
 Depth to Water:
 130

3 WSW TN WELLS TN700000016882 1/2 - 1 Mile

Lower

Higher

 Well #:
 20010099
 License Code:
 598

 Total Depth:
 145
 Est Yield:
 30

 Quad #:
 0125SE5
 Driller Tag #:
 D0047236

 Casing Depth:
 41
 Depth to Water:
 55

Casing Depth: 41 Depth Intended Well Use: Residential

Residential

4 West TN WELLS TN700000019100 1/2 - 1 Mile

 Well #:
 98005085
 License Code:
 598

 Total Depth:
 245
 Est Yield:
 5

 Quad #:
 0125SE5
 Driller Tag #:
 D0030376

 Casing Depth:
 41
 Depth to Water:
 225

Intended Well Use: Residential

5 SSW TN WELLS TN700000015067

SSW 1/2 - 1 Mile Higher

 Well #:
 10700135
 License Code:
 6

 Total Depth:
 148
 Est Yield:
 21

Quad #: 0125SE5 Driller Tag #: Not Reported

GEOCHECK®-PHYSICAL SETTING SOURCE MAP FINDINGS

Casing Depth: 54 Depth to Water: 133

Intended Well Use: Residential

6 NE FRDS PWS TN0003431

1/2 - 1 Mile Lower

Epa region: 04 State: TN

Pwsid: TN0003431 Pwsname: DOUBLE SPRINGS BAPT CHURCH

Cityserved:Not ReportedStateserved:TNZipserved:Not ReportedFipscounty:47107Status:ClosedRetpopsrvd:90

Pwssvcconn: 0 Psource longname: Groundwater Pwstype: TNCWS Owner: unknown

Contact: DOUBLE SPRINGS BAPT CHURCH

Contactorgname: Not Reported Contactphone: Not Reported Contactaddress1: Not Reported Contactaddress2: Not Reported

Contactcity: ETOWAH Contactstate: TN Contactstip: 37331 Pwsactivitycode: I

PWS ID: TN0003431 PWS type: Not Reported PWS address: PWS name: Not Reported Not Reported PWS city: Not Reported PWS state: Not Reported PWS ID: TN0003431 PWS zip: Not Reported Activity status: Active Date system activated: 7706 00000090 Date system deactivated: Not Reported Retail population:

System name: DOUBLE SPRINGS BAPT CHURCH

System address: Not Reported System city: ETOWAH System state: TN System zip: 37331

Latitude: 351923 Longitude: 0843130

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: TN Radon

Radon Test Results

County	Total Sites	Avg	Max <4 pCi/L	4-10 pCi/L	10-20 pCi/L	20-50 pCi/L	50-100 pCi/L	>100 pCi/L
		_						
MCMINN	8	2.6	4.4 6	2	0	0	0	0

Federal EPA Radon Zone for MCMINN County: 1

Note: Zone 1 indoor average level > 4 pCi/L.

: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.

: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 37331

Number of sites tested: 2

Area Average Activity % <4 pCi/L % 4-20 pCi/L % >20 pCi/L Living Area - 1st Floor 0.350 pCi/L 100% 0% 0% Living Area - 2nd Floor Not Reported Not Reported Not Reported Not Reported 0.900 pCi/L Basement 100% 0% 0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory

Source: Department of Environment & Conservation

Telephone: 651-532-0052

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

County Water Wells in Tennessee

Source: Department of Environment and Conservation

Telephone: 615-532-0191

Water well locations for the entire state.

OTHER STATE DATABASE INFORMATION

RADON

State Database: TN Radon

Source: Department of Environment & Conservation

Telephone: 615-299-9725 Radon Test Results

Area Radon Information Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency

(USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor

radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

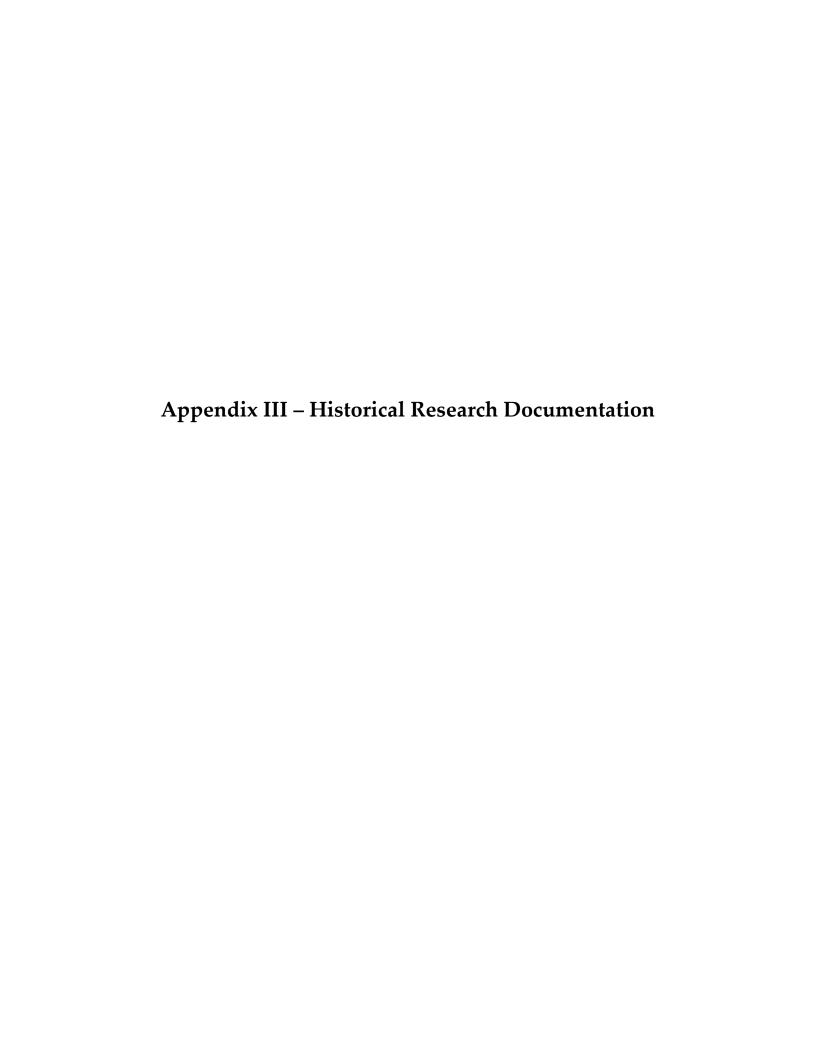
Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared

in 1975 by the United State Geological Survey

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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Etowah Future Housing Site County Road 802 Etowah, TN 37331

Inquiry Number: 5424177.3

September 14, 2018

Certified Sanborn® Map Report



Certified Sanborn® Map Report

09/14/18

Site Name: Client Name:

Etowah Future Housing Site S&ME

County Road 802 4291 Highway 58

Etowah, TN 37331 Chattanooga, TN 37416

EDR Inquiry # 5424177.3 Contact: Barry Burnette



The Sanborn Library has been searched by EDR and maps covering the target property location as provided by S&ME were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # 44B2-491E-A366

PO# NA

Project 4181-15-055P

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.



Sanborn® Library search results

Certification #: 44B2-491E-A366

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

✓ Library of Congress

University Publications of America

▼ EDR Private Collection

The Sanborn Library LLC Since 1866™

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Etowah Future Housing Site County Road 802 Etowah, TN 37331

Inquiry Number: 5424177.4

September 14, 2018

EDR Historical Topo Map Report

with QuadMatch™



EDR Historical Topo Map Report

09/14/18

Site Name: Client Name:

Etowah Future Housing Site

County Road 802

Etowah, TN 37331 EDR Inquiry # 5424177.4 S&ME

4291 Highway 58

Chattanooga, TN 37416 Contact: Barry Burnette



EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by S&ME were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Res	ults:	Coordinates:	Coordinates:		
P.O.#	NA	Latitude:	35.315645 35° 18' 56" North		
Project:	4181-15-055P	Longitude:	-84.536855 -84° 32' 13" West		
-		UTM Zone:	Zone 16 North		
		UTM X Meters:	723922.58		
		UTM Y Meters:	3910831.24		
		Elevation:	838.00' above sea level		

Maps Provided:

2013	1895
2003	1892
1975	1886
1967	
1944	
1943	
1935	
1901	

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2013 Source Sheets



Etowah 2013 7.5-minute, 24000

2003 Source Sheets



Etowah 2003 7.5-minute, 24000 Aerial Photo Revised 2001

1975 Source Sheets



Etowah 1975 7.5-minute, 24000 Aerial Photo Revised 1965

1967 Source Sheets



Etowah 1967 7.5-minute, 24000 Aerial Photo Revised 1965

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1944 Source Sheets



Etowah 1944 7.5-minute, 24000

1943 Source Sheets



Etowah 1943 7.5-minute, 24000

1935 Source Sheets



Etowah 1935 7.5-minute, 24000

1901 Source Sheets



Cleveland 1901 30-minute, 125000

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1895 Source Sheets



Cleveland 1895 30-minute, 125000

1892 Source Sheets

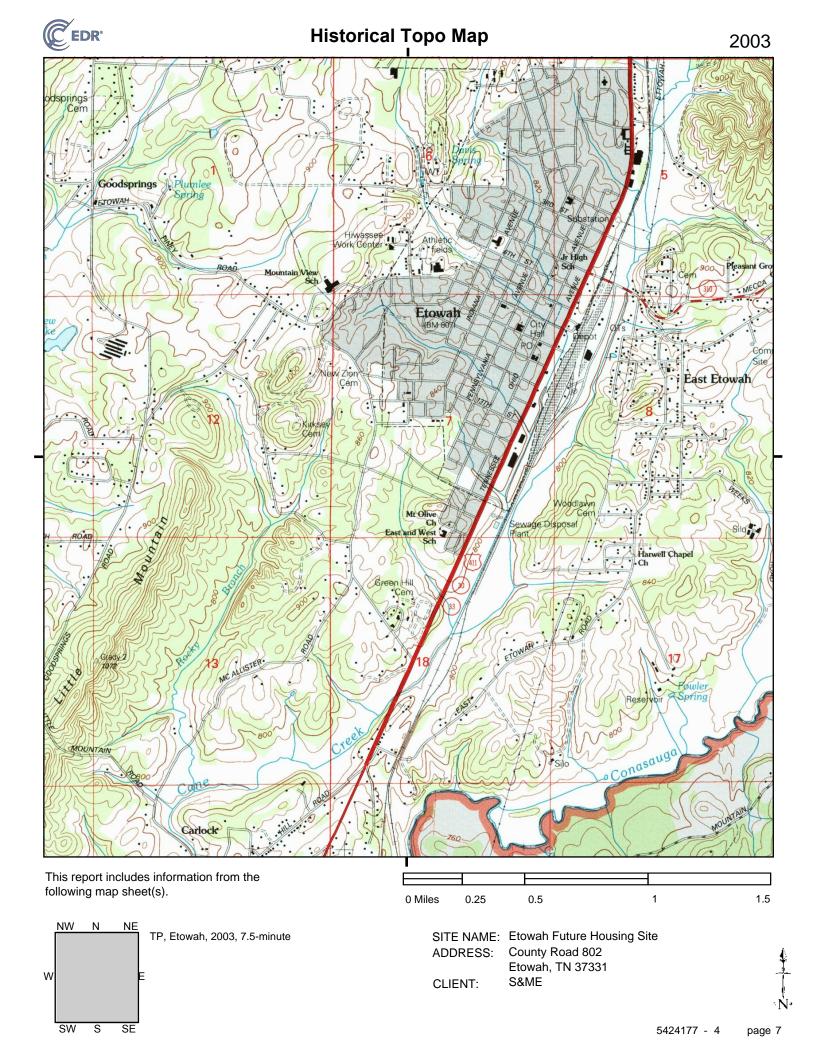


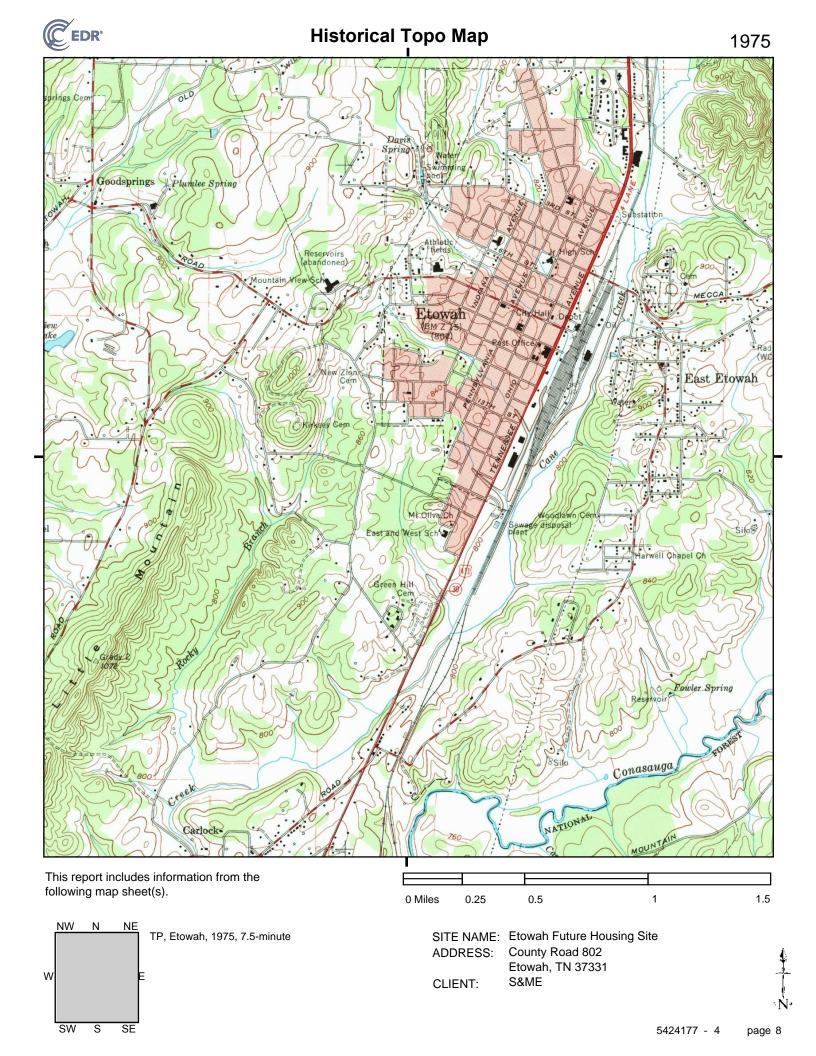
Cleveland 1892 30-minute, 125000

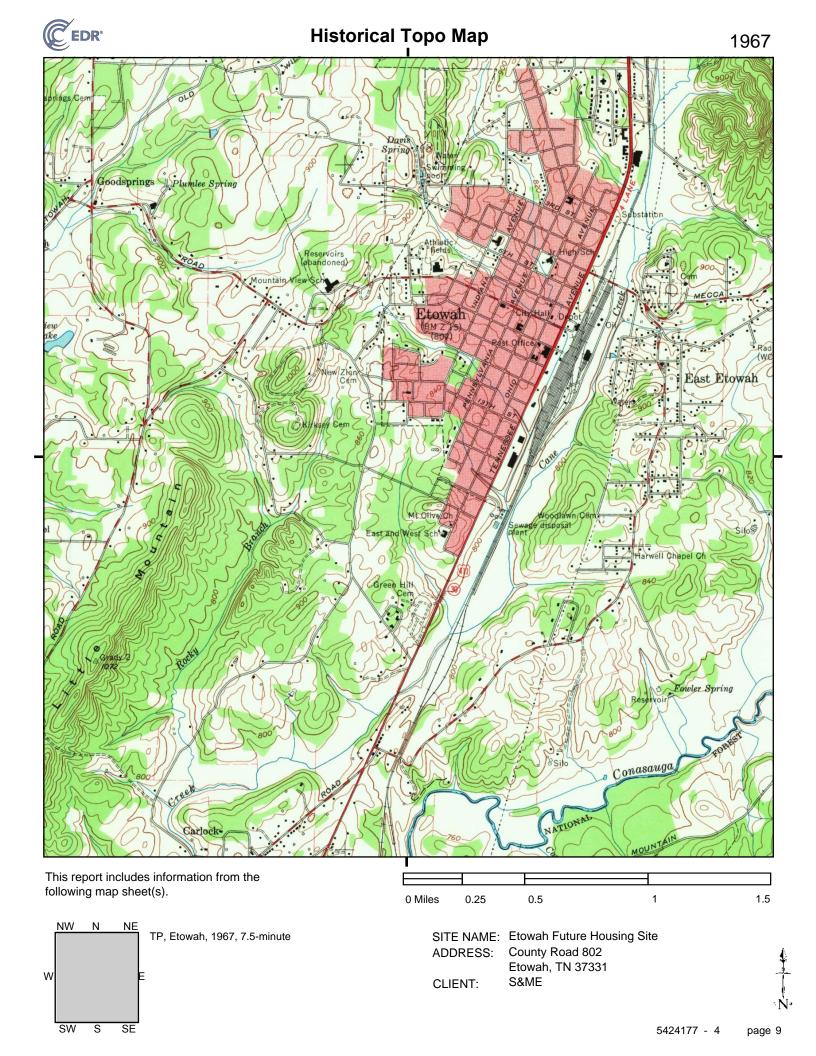
1886 Source Sheets

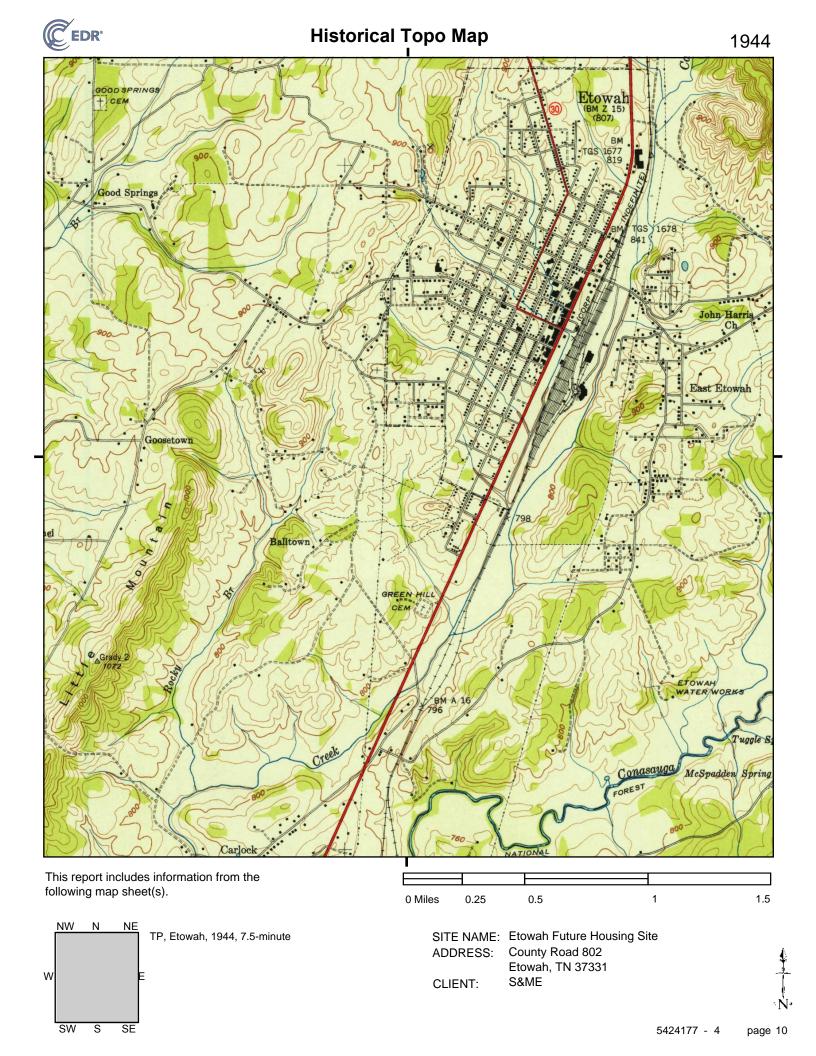


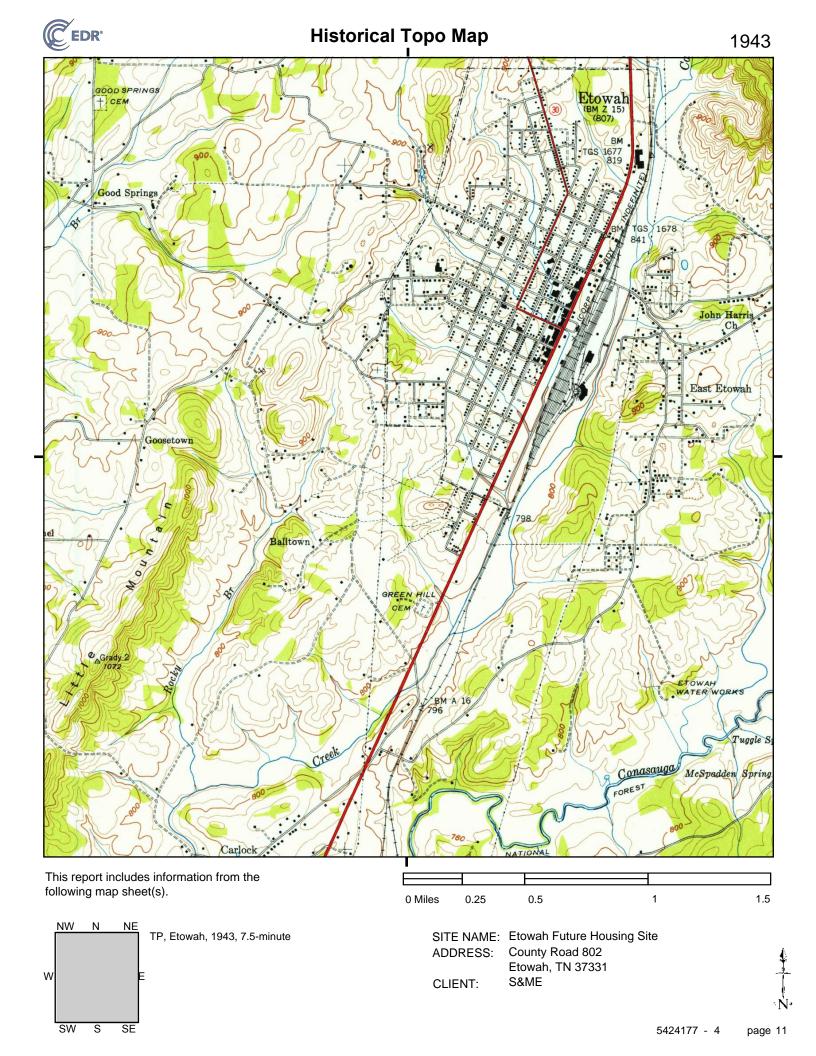
Cleveland 1886 30-minute, 125000

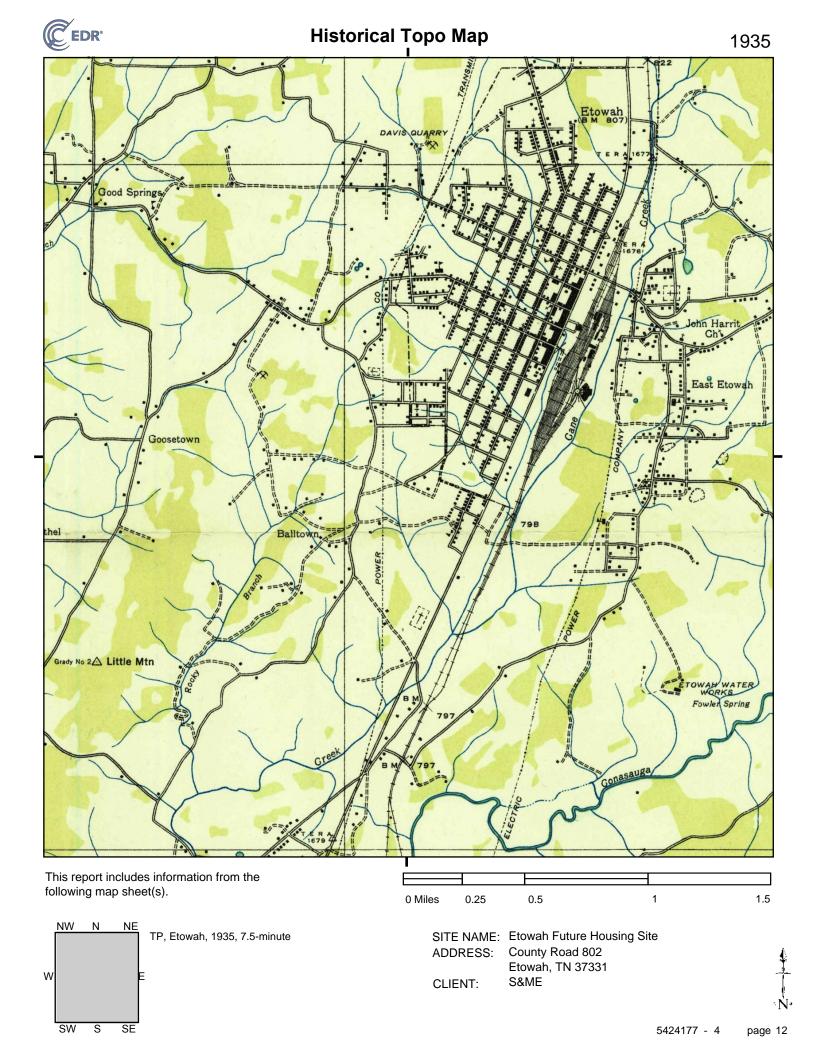


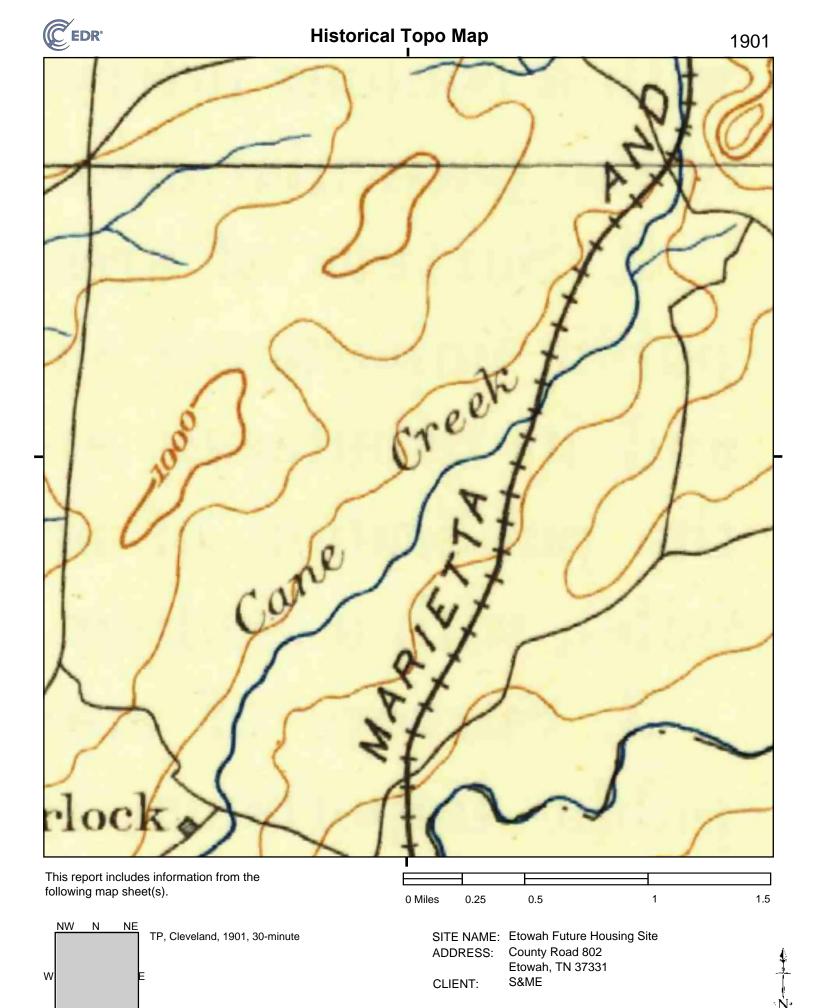


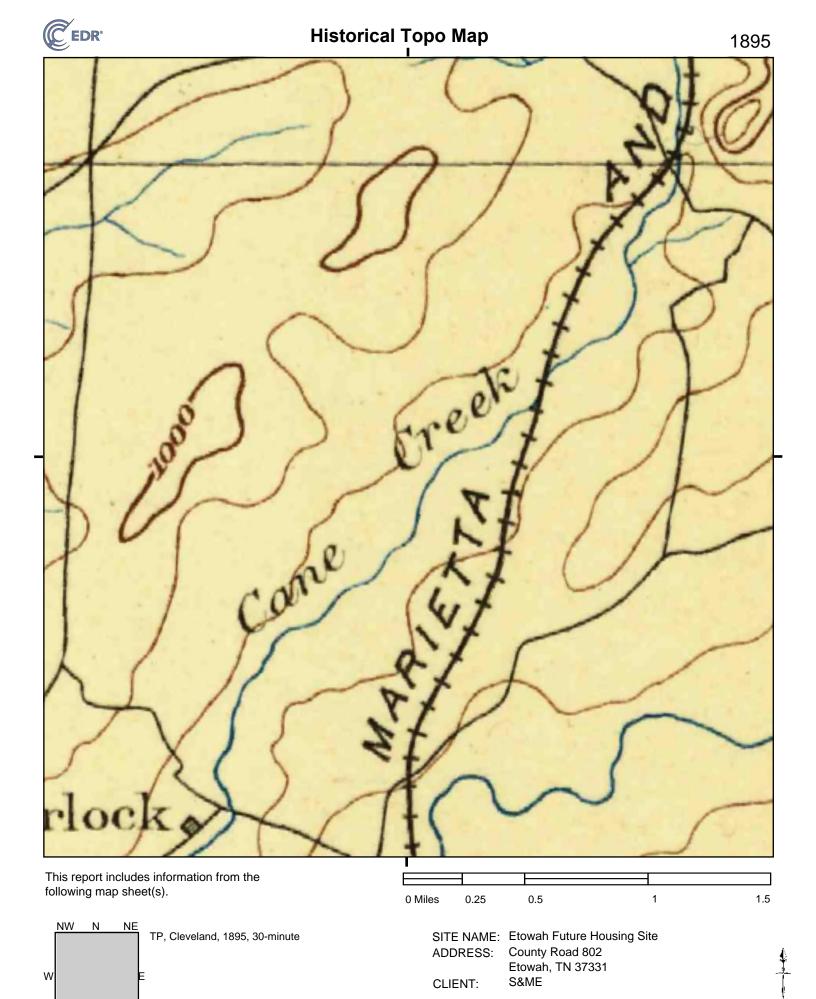


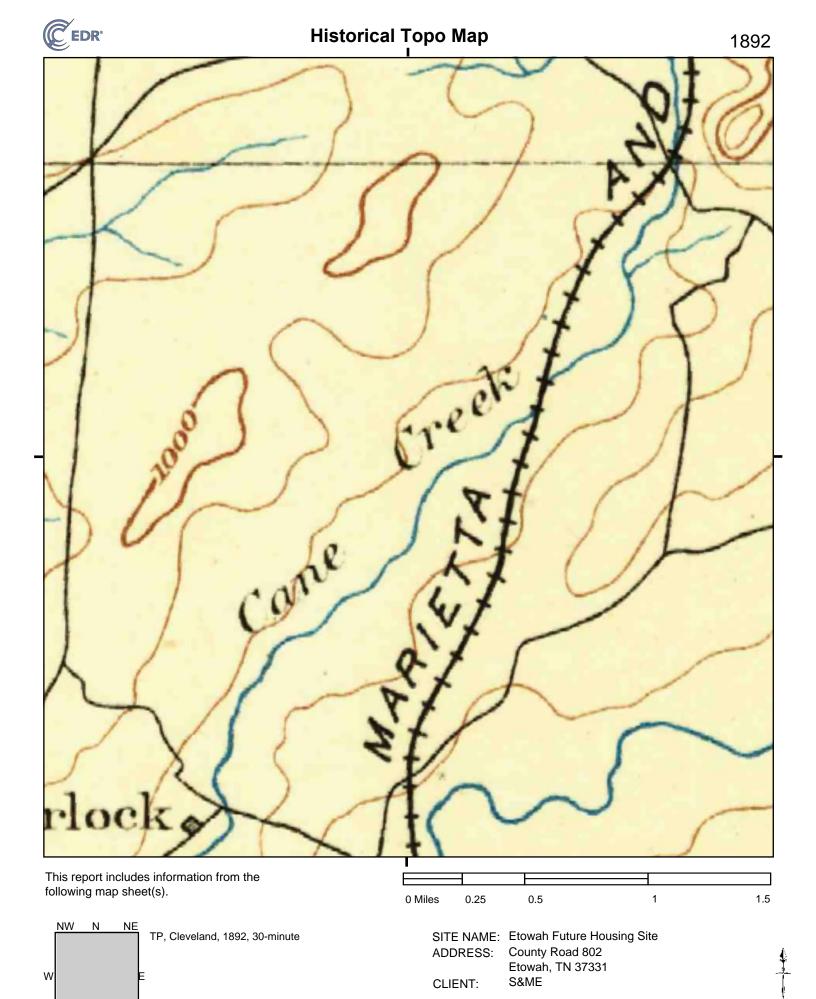


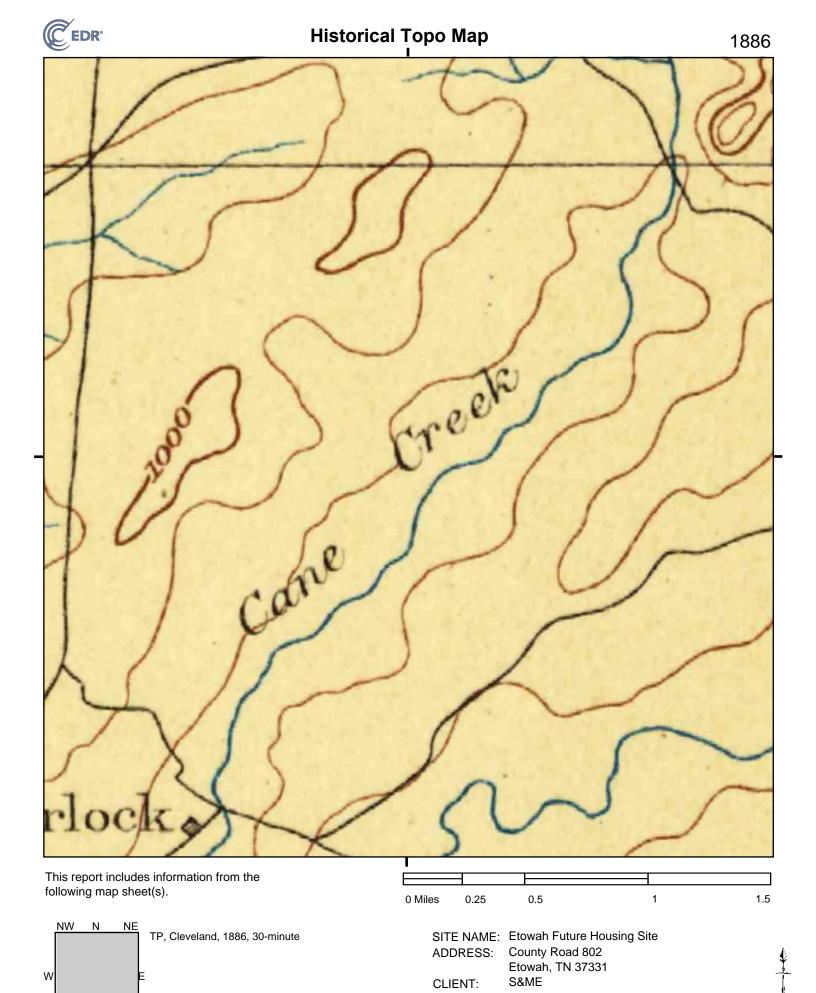












5424177 - 4 page 16

ETOWAH FUTURE HOUSING SITE

COUNTY ROAD 802 ETOWAH, TN 37331

Inquiry Number: 5424177.7 SEPTEMBER 17, 2018

EDR Environmental Lien and AUL Search



6 Armstrong Road, 4th floor Shelton, CT 06484 Toll Free: 800.352.0050 www.edrnet.com

The EDR Environmental Lien Search Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- provide a copy of the deed or cite documents reviewed.

Thank you for your business.

Please contact EDR at 1-800-352-0050 with any questions or comments.

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TARGET PROPERTY INFORMATION

ADDRESS

ETOWAH FUTURE HOUSING SITE

COUNTY ROAD 802

ETOWAH, TN 37331

RESEARCH SOURCE

Source 1: MC MINN COUNTY RECORDER'S OFFICE

Source 2: TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION

Source 3: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

PROPERTY INFORMATION

Deed 1

Type of Deed: WARRANTY DEED
Title is vested in: CITY OF ETOWAH

Title received from: FRANKLIN M CANTRELL JR, ROBERT W CANTRELL, NANCY CANTRELL DENDER, CAROL

E CANTRELL CAMP AND, MINTIE C WILLSON

Date Executed: 06/28/1990 Date Recorded: 07/02/1990 Book: 11M Page: 610 Volume: NA Instrument#: NA Docket: NA Land Record Comments: NA Miscellaneous Comments: NA

Legal Description: 04 115 115 08801 000 W ROBERTS SURV 10/89

Current Owner: CITY OF ETOWAH

Property Identifiers: 118-101.00

Comments: NA

ENVIRONMENTAL LIEN

Environmental Lien:	Found	Not Found	X
If Found:			
1st Party:	NA		
2 nd Party:	NA		
Dated:	NA		
Recorded:	NA		
Book:	NA		
Page:	NA		
Docket:	NA		
Volume:	NA		
Instrument #:	NA		
Comments:			
Miscellaneous:			

OTHER ACTIVITY AND USE LIMITATIONS (AULS)

X Other AUL's: Found Not Found If Found: 1st Party: NA 2nd Party: NA Dated: NA Recorded: NA Book: NA Page: NA Docket: NA Volume: NA Instrument #: NA Comments:

Miscellaneous:

MISCELLANEOUS

Type of Instrument: NONE IDENTIFIED

First Party:
Second Party:
Date Recorded:
Instrument #:
Book:

Page:

Comments:

DEED EXHIBIT

This Instrumer

1 Cornify that his parties he read

State This 1.00

Total of the control of the

This Instrument Prepared by: Jeffrey L. Cunningham CARTER, HARROD & CUNNINGHAM One Madison Avenue Athens, Tennessee 37303 (t)

WARRANTY DEED TAX FD # 115-88.00
(map-parcel)

This Indenture made and entered into on this 28th day of JUNE, 1990, by and between FRANKLIN M.

CANTRELL, JR., ROBERT W. CANTRELL, by their Attorney-in-Fact,

Nancy C. Dender, NANCY CANTRELL DENDER, CAROL E. CANTRELL CAMP,

by her Attorney-in-Fact, Mintie C. Willson, and MINTIE C. WILLSON, hereinafter referred to as First Parties, and THE CITY OF ETOWAH, a municipal corporation chartered under the laws of

WITNESSETH:

Tennessee, hereinafter referred to as Second Party.

That said First Parties, for and in consideration of the sum of Ten (\$10.00) Dollars, to them in hand paid by Second Party, the receipt of which is hereby acknowledged, and other good and valuable considerations not necessary to set out herein, but all of which have been fully paid, have bargained, sold and conveyed, and do hereby grant, bargain, sell and convey unto the said Second Party, the following described premises, to-wit:

LYING AND BEING situated West of the City of Etowah, Tennessee, and in the First Civil District of McMinn County, Tennessee, the same being more particularly described as follows, to-wit:

BEGINNING at an iron pin located at the point of intersection of Pennsylvania Avenue and County Road No. 802; thence running along County Road No. 802, North 65 degrees 44 minutes West, 1571.5 feet to an iron pin set in the point of intersection of County Road No. 802 and County Road No. 801; thence running along County Road No. 801, the following calls and distances: North 12 degrees 33 minutes East, 166.0 feet to a point; thence North 22 degrees 33 minutes East, 163.0 feet to a point; thence North 17 degrees 36 minutes East, 223.1 feet to a point; thence North 14 degrees 11 minutes East, 125.0 feet to a point; thence North 09 degrees 59 minutes East, 127.8 feet to a point; thence North 04 degrees 40 minutes East, 144.7 feet to an iron pin; thence leaving said County Road No. 801 and running partially along County Road No. 800 and partially with a 12-foot alley (attached survey indicates both are not in use), South 89 degrees 00 minutes East, 1490.4 feet to an iron pin; thence running along Green Street (attached survey indicates Street is not in use), South 00 degrees 00 minutes West, 857.6 feet to an iron pin set in Pennsylvania Avenue; thence running with said Avenue, South 23 degrees 00 minutes West, 737.5 feet to the point of BEGINNING and CONTAINING 45.62 ACRES, more or less, as shown on survey of William W. Roberts dated 13 October 1989 and bearing a drawing number of 89-343. A copy of said survey is attached hereto and made a

PROPERTY TRANSFEL NOTES

Total 2, 1990

OURTIS FOSTER

NAME COURTY PROPERTY AND

City of Etowah P. O. Bex 390-Etowah, Learn AND BEING a part of the same real estate conveyed to F. M. Cantrell and M. P. Cantrell by deed dated August 22, 1942 and registered in Deed Book 3-Z, page 261. The interest of F. M. Cantrell being conveyed to Mrs. May Hale Cantrell (widow of F. M. Cantrell) by the Last Will and Testament of F. M. Cantrell, as recorded in Deed Book 10-T, page 687, and further conveyed to Franklin M. Cantrell, Jr., Nancy Cantrell Dender and Robert W. Cantrell by the Last Will and Testament of Mrs. May Hale Cantrell, as recorded in Deed Book 10-T, page 690. All documents recorded in Deed Book 10-T, page 690. All documents recorded in the Register's Office for McMinn County, Tennessee. The interest of M. P. Cantrell being conveyed to Mintie Cantrell Willson and Carol Cantrell Camp by the Last Will and Testament of M. P. Cantrell of record in Will Book L, page 152, in the Probate Court for McMinn County, Tennessee.

The Power of Attorney appointing Nancy C. Dender is recorded in Deed Book 11m, page 495, in the said Register's Office.

The Power of Attorney appointing Mintie C. Willson is recorded in Deed Book ////M, page $////49\lambda$, in the said Register's Office. SUBJECT to the power line that runs across said property and as shown on the attached survey.

THIS CONVEYANCE IS SUBJECT to all prior easements, rights of way and restrictions, visible or otherwise.

THE PREPARER OF THIS DOCUMENT MAKES NO REPRESENTATIONS AS TO THE STATUS OF THE TITLE OR MATTERS CONTAINED THEREIN.

SEND	PROPERTY	TAX	STATEMENT	TO:	*
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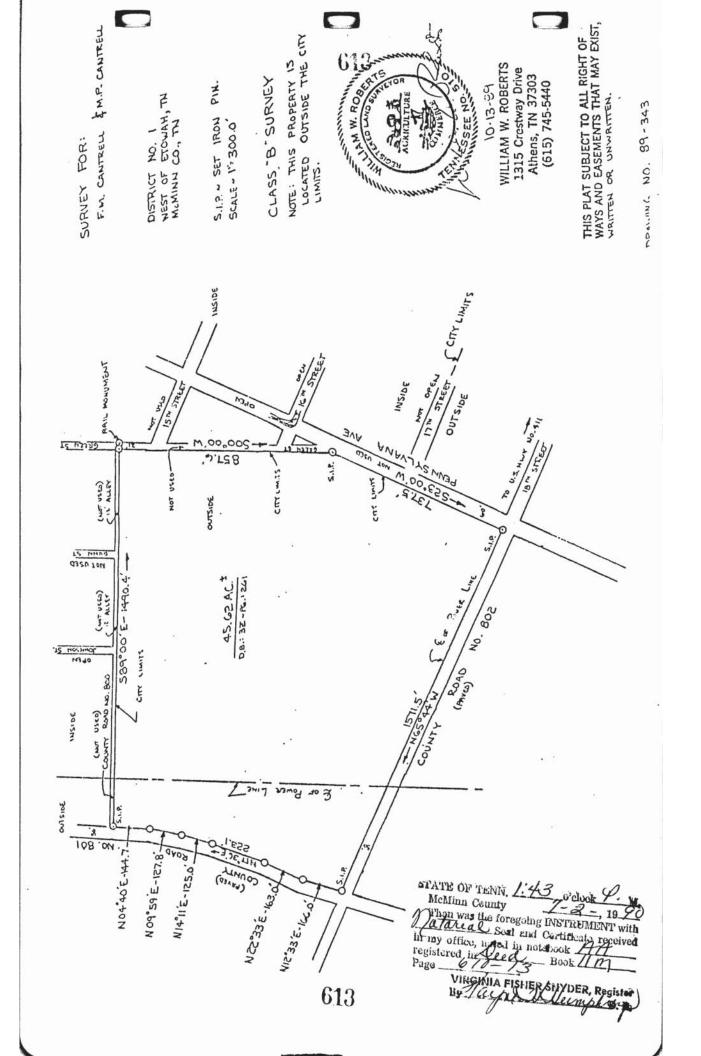
with the hereditaments and appurtenances thereto appertaining, hereby releasing all claims to homestead and dower therein. TO HAVE AND TO HOLD said premises to the said Second Party, its successors and assigns forever.

And the said First Parties, for themselves and for their heirs, executors and administrators, do hereby covenant to and with Second Party, its successors and assigns, that they are lawfully seized in fee simple of the premises above conveyed and have full power, authority and right to convey the same, and that said premises are free from all encumbrances, except those easements which are a matter of record and/or apparent upon the ground, and that they will forever warrant and defend the said premises and the title thereto against the lawful claims of all persons whomsoever.

My Commiss

IN WITNESS WHEREOF, the said First Parties have set their hand and seal the day and year first above written.

FRANKLIN M. CANTRELL, JR., by his attorney- in-fact, Nancy C. Dender rify in fact. Toberh W. Cantrell by Hancy C. Dender ROBERT W. CANTRELL, by his attorney fin-fact, fact, Nancy C. Dender Control Mancy Cantrell Slender NANCY CANTRELL DENDER Carol E. Cantrell Comp by Minte C. Will CAROL E. CANTRELL CAMP, by her attorney-in- fact, Mintie C. Willson Mentie C. Willson
MINTIE C. WILLSON
STATE OF TENNESSEE
COUNTY OF MCMINN
Personally appeared before me, the undersigned authority, a Notary Public in and for said County and State, with whom I am personally acquainted, FRANKLIN M. CANTRELL, JR, ROBERT W. CANTRELL, by their attorney-in-fact, Nancy C. Dender, and NANCY CANTRELL DENDER, who acknowledged that they executed the within instrument for the purposes therein contained.
day of, 1990.
My. Commission Expires:
STATE OF TENNESSEE
COUNTY OF McMINN
Personally appeared before me, the undersigned authority, a Notary Public in and for said County and State, with whom I am personally acquainted, CAROL E. CANTRELL, by her attorney-infact, Mintie C. Willson, and MINTIE C. WILLSON, who acknowledged that they executed the within instrument for the purposes therein contained.
witness my hand and official seal at office, this 28 day of 1990. NOTARY PUBLIC
My commission Expires: or we hereby swear or affirm that the actual consideration this transfer or value of the property transferred, which amount is equal reacter is \$ or greater than the amount which the property transferred and command at a lair voluntary sale.
cribed and sworn to before me thisday of19



Etowah Future Housing Site

County Road 802 Etowah, TN 37331

Inquiry Number: 5424177.11

September 17, 2018

The EDR Aerial Photo Decade Package



EDR Aerial Photo Decade Package

09/17/18

Site Name: Client Name:

Etowah Future Housing Site S&ME

County Dead 900

County Road 802 4291 Highway 58
Etowah, TN 37331 Chattanooga, TN 37416
EDR Inquiry # 5424177.11 Contact: Barry Burnette



Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

<u>Year</u>	<u>Scale</u>	<u>Details</u>	Source
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2008	1"=500'	Flight Year: 2008	USDA/NAIP
1997	1"=500'	Acquisition Date: March 07, 1997	USGS/DOQQ
1992	1"=500'	Flight Date: March 28, 1992	USGS
1988	1"=1000'	Flight Date: May 30, 1988	USGS
1977	1"=500'	Flight Date: March 08, 1977	USGS
1975	1"=500'	Flight Date: April 01, 1975	USGS

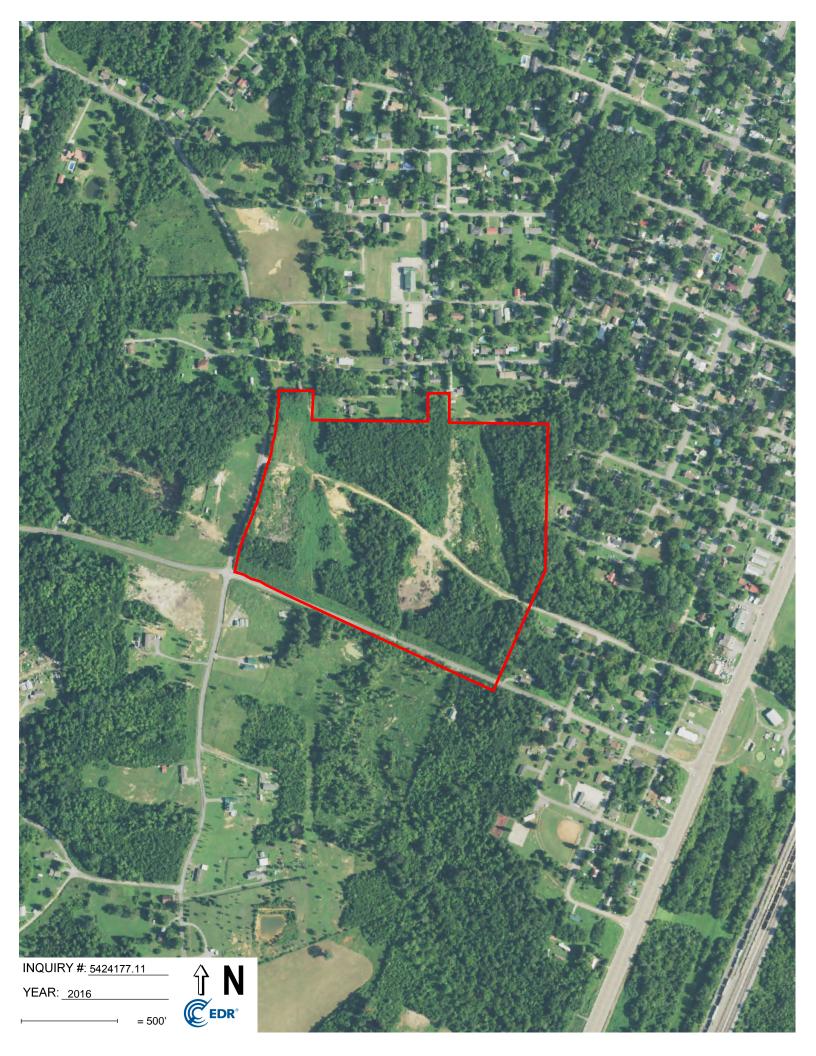
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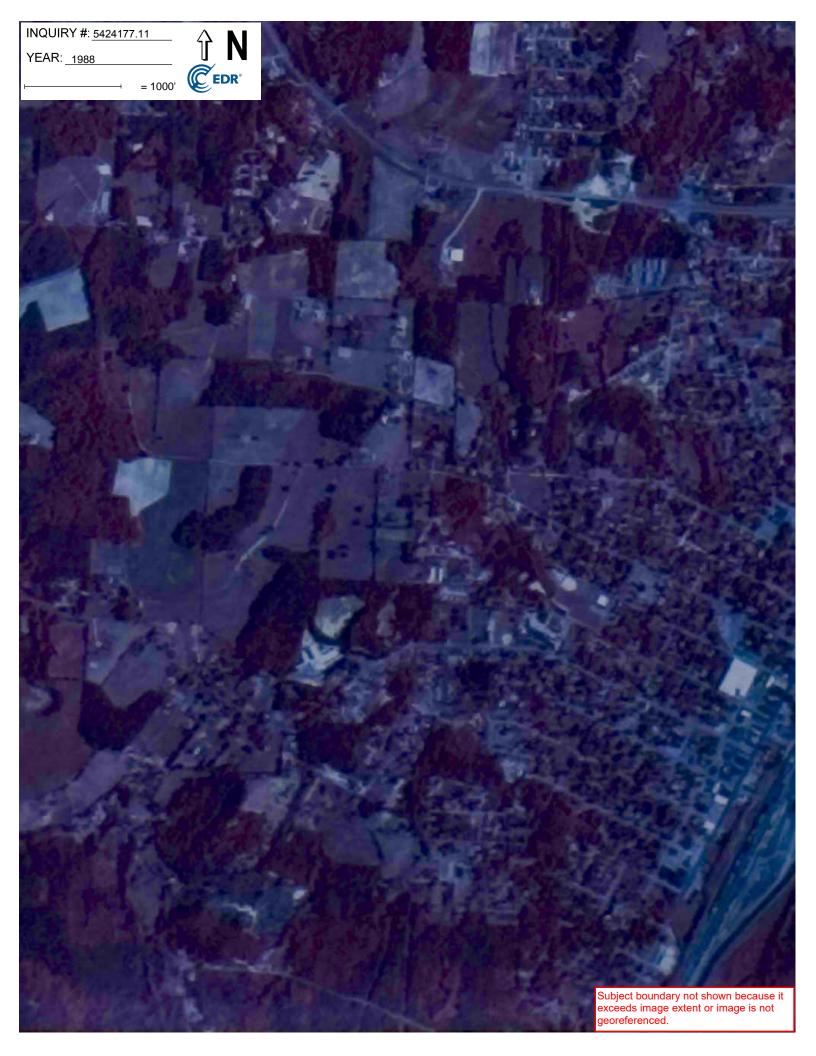
















ETOWAH FUTURE HOUSING SITE

COUNTY ROAD 802 ETOWAH, TN 37331

Inquiry Number: 5424177.13

SEPTEMBER 17, 2018

The EDR 1940 Chain of Title



EDR Chain of Title

The EDR Chain of Title Report tracks a line of successive owners from the present back to 1940 of a particular parcel of property, linked together by recorded transactions which pass title. Available nationwide, this report provides a summary of a property's ownership history and is a valuable source for determining the prior uses of a property.

A network of professional abstractors following established procedures, uses client supplied address information to locate:

- · Historical Chain of Title research
- · Leases and Miscellaneous

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EDR Chain of Title

TARGET PROPERTY INFORMATION

ADDRESS

ETOWAH FUTURE HOUSING SITE COUNTY ROAD 802 ETOWAH, TN 37331

RESEARCH SOURCE

SOURCE 1: MC MINN COUNTY RECORDER'S OFFICE

SOURCE 2: MC MINN COUNTY ASSESSOR'S OFFICE

EXAMINER'S NOTE: PUBLIC RECORDS OF MC MINN COUNTY, TN WERE SEARCHED FROM

JANUARY 1, 1940 TO SEPTEMBER 10, 2018, AND NO OTHER DEEDS VESTING TITLE IN THE SUBJECT PROPERTY WERE FOUND OF RECORD

DURING THE PERIOD SEARCHED.

PROPERTY DESCRIPTION

CURRENT OWNER: CITY OF ETOWAH

LEGAL DESCRIPTION: 04 115 115 08801 000 W ROBERTS SURV 10/89

PROPERTY IDENTIFIERS: 118-101.00

GENERAL COMMENTS: NA

HISTORICAL CHAIN OF TITLE

SEE EXHIBIT "A"

LEASES AND MISCELLANEOUS

SEE EXHIBIT "B"

EDR Chain of Title

CHAIN OF TITLE

EXHIBIT "A"

EDR Chain of Title

HISTORICAL CHAIN OF TITLE

PARCEL 118-101.00

CHAIN 1

TYPE OF DEED:

WARRANTY DEED

TITLE IS VESTED IN:

THE CITY OF ETOWAH

TITLE RECEIVED FROM:

FRANKLIN M CANTRELL JR, ROBERT W CANTRELL, NANCY CANTRELL

DENDER, CAROL E CANTRELL CAMP AND, MINTIE C WILLSON

DATE EXECUTED:

06/28/1990

DATE RECORDED:

07/02/1990

BOOK:

11M

PAGE:

610

VOLUME:

NA

INSTRUMENT #:

NA

DOCKET:

NA

LAND RECORD COMMENTS:

NA

CHAIN 2

TYPE OF DEED:

DEED

TITLE IS VESTED IN:

F. M. CANTRELL AND M. P. CANTRELL

TITLE RECEIVED FROM:

H. E. KINDER, WIDOWER

DATE EXECUTED:

08/22/1942

DATE RECORDED:

08/22/1942

BOOK:

3Z

PAGE:

261

VOLUME:

NA

INSTRUMENT #:

NA

DOCKET:

NA

LAND RECORD COMMENTS:

SEARCHED BACK TO 1940, PRIOR DEED WAS RECORDED BEFORE 1940.

EDR Chain of Title

LEASES AND MISCELLANEOUS EXHIBIT "B"

EDR Chain of Title

LEASES AND MISCELLANEOUS

TYPE OF INSTRUMENT: NONE IDENTIFIED

FIRST PARTY: SECOND PARTY: RECORDED:

PAGE:

BOOK: INSTRUMENT #:

COMMENTS:

This Instrumer

1 Cornify that his parties he read

State This 1.00

Total of the control of the

This Instrument Prepared by: Jeffrey L. Cunningham CARTER, HARROD & CUNNINGHAM One Madison Avenue Athens, Tennessee 37303 (t)

WARRANTY DEED TAX FD # 115-88.00
(map-parcel)

This Indenture made and entered into on this 28th day of JUNE, 1990, by and between FRANKLIN M.

CANTRELL, JR., ROBERT W. CANTRELL, by their Attorney-in-Fact,

Nancy C. Dender, NANCY CANTRELL DENDER, CAROL E. CANTRELL CAMP,

by her Attorney-in-Fact, Mintie C. Willson, and MINTIE C. WILLSON, hereinafter referred to as First Parties, and THE CITY OF ETOWAH, a municipal corporation chartered under the laws of

WITNESSETH:

Tennessee, hereinafter referred to as Second Party.

That said First Parties, for and in consideration of the sum of Ten (\$10.00) Dollars, to them in hand paid by Second Party, the receipt of which is hereby acknowledged, and other good and valuable considerations not necessary to set out herein, but all of which have been fully paid, have bargained, sold and conveyed, and do hereby grant, bargain, sell and convey unto the said Second Party, the following described premises, to-wit:

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PROPERTY TRANSFEL NOTES

Total 2, 1990

OURTIS FOSTER

NAME COURTY PROPERTY AND

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SEND	PROPERTY	TAX	STATEMENT	TO:	* · · · · · · · · · · · · · · · · · · ·
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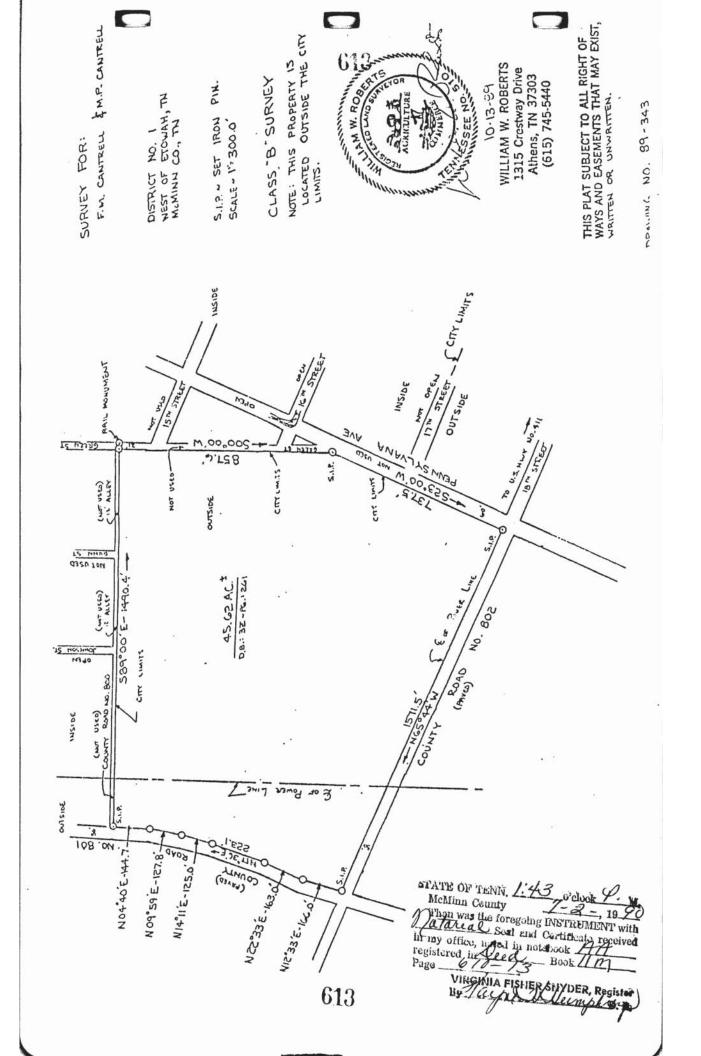
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My Commiss

IN WITNESS WHEREOF, the said First Parties have set their hand and seal the day and year first above written.

FRANKLIN M. CANTRELL, JR., by his attorney- in-fact, Nancy C. Dender rify in fact. Toberh W. Cantrell by Hancy C. Dender ROBERT W. CANTRELL, by his attorney fin-fact, fact, Nancy C. Dender Control Mancy Cantrell Slender NANCY CANTRELL DENDER Carol E. Cantrell Comp by Minte C. Will CAROL E. CANTRELL CAMP, by her attorney-in- fact, Mintie C. Willson Mentie C. Willson
MINTIE C. WILLSON
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COUNTY OF MCMINN
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COUNTY OF McMINN
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witness my hand and official seal at office, this day of 1990. NOTARY PUBLIC
My commission Expires: or we hereby swear or affirm that the actual consideration withis transfer or value of the property transferred, which amount is equal or greater is \$ or greater than the amount which the property transferred and command at a larr voluntary sale.
cribed and sworn to before me thisday of19



Etowah Future Housing Site

County Road 802 Etowah, TN 37331

Inquiry Number: 5424177.5

September 17, 2018

The EDR-City Directory Image Report



TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Target Street</u>	Cross Street	<u>Source</u>
2014	$\overline{\checkmark}$	$\overline{\checkmark}$	EDR Digital Archive
2010	$\overline{\checkmark}$	$\overline{\checkmark}$	EDR Digital Archive
2005	$\overline{\checkmark}$	$\overline{\checkmark}$	EDR Digital Archive
2000	$\overline{\checkmark}$	$\overline{\checkmark}$	EDR Digital Archive
1995	$\overline{\checkmark}$		EDR Digital Archive
1992			EDR Digital Archive

FINDINGS

TARGET PROPERTY STREET

County Road 802 Etowah, TN 37331

<u>Year</u>	<u>CD Image</u>	<u>Source</u>	
COUNTY R	OAD 802		
2014	pg A2	EDR Digital Archive	
2010	pg A4	EDR Digital Archive	
2005	pg A6	EDR Digital Archive	
2000	pg A8	EDR Digital Archive	
1995	pg A9	EDR Digital Archive	
1992	-	EDR Digital Archive	Street not listed in Source

5424177-5 Page 2

FINDINGS

CROSS STREETS

1992

<u>Year</u>	CD Image	<u>Source</u>	
COUNTY RO	OAD 801		
2014	pg. A1	EDR Digital Archive	
2010	pg. A3	EDR Digital Archive	
2005	pg. A5	EDR Digital Archive	
2000	pg. A7	EDR Digital Archive	
1995	-	EDR Digital Archive	Street not listed in Source

EDR Digital Archive

5424177-5 Page 3

Street not listed in Source



Target Street Cross Street Source
- Source EDR Digital Archive

COUNTY ROAD 801 2014

128	MORELAN, MARIE A
187	COBB, LULA
198	BILLINGSLEY, JAMES A
200	OCCUPANT UNKNOWN,
206	CAMPBELL, GEORGE M
208	ARMSTRONG, TERRANCE D
209	BALDWIN, MICHAEL A
211	GULLETT, JASON
212	ARMSTRONG, ALVIN T
255	OCCUPANT UNKNOWN,
263	ELROD, CHRIS L
264	HAMILTON GEORGE
	HAMILTON, GEORGE
277	JOHNATHAN, BOOKER
287	QUAM, ROGER K
288	PILKEY, GROVER C
293	LABIT, LARRY P
297	HAYES, CORINNE R
312	MOSS, MARY E
317	OCCUPANT UNKNOWN,
318	ARMSTRONG, LOUISE
324	OCCUPANT UNKNOWN,
348	JIM RUTHEM
	RUTHEM, JAMES J
361	DAVIS, PATRICK J
374	MAYNARD, CAROL G
375	CALDWELL, JAMES W
378	OCCUPANT UNKNOWN,
379	MONROE, CHARLIE L
382	RULE, CHARLES
408	OCCUPANT UNKNOWN,

Target Street Cross Street Source

→ EDR Digital Archive

COUNTY ROAD 802 2014

	COUNTY ROAD 802 2014
107 123 128 129 200 242 250 256 264 279 283	SMITH, TRAVIS B ARMSTRONG, LUCILLE SIMPSON, DONALD M BEADLE, BARBARA SMITH, TRAVIS BOWERS, STANLEY E JACKSON, KENNETH M OCCUPANT UNKNOWN, MCCROSKEY, SONYA E ROBERTS, GLENN A COX, DANIEL

Target Street Cross Street Source
- Source EDR Digital Archive

COUNTY ROAD 801 2010

128	MORELAN, MARIE A
187	COBB, LULA
198	BILLINGSLEY, JAMES
206	ARMSTRONG, PRISCILLA R
208	ARMSTRONG, TERRANCE
209	RUSSELL, SHERRI
211	GULLETT, JASON
212	ARMSTRONG, ALVIN T
255	HUGHES, JANET N
263	ELROD, CHRIS L
	SKUNK HOLLOW FARM
264	MUNOZ RICARDO SR
	MUNOZ, RICARDO M
277	BOOKER, TALIA D
287	QUAM, ROGER K
288	BATES, RICKEY L
293	LABIT, LARRY
297	MANNEN, CHARLES F
312	MOSS, MARY E
317	MANNEN, CHARLES F
318	ARMSTRONG, LOUISE
348	JIM RUTHEM
	RUTHEM, JAMES J
361	DAVIS, PATRICK J
362	MARTIN, LISA
374	HARWELL CHAPEL AME ZION CHURCH
375	CALDWELL, JAMES E
379	EARL, DAVID L
382	RULE, RUTH J
390	RULE, DOUG
408	WITT, EUGENE

Target Street Cross Street Source

- EDR Digital Archive

COUNTY ROAD 802 2010

	COUNTY ROAD 802	2010
107	SMITH, GRETA L	
123	ARMSTRONG, LUCILLE K	
128	SIMPSON, DONALD M	
129	BEADLE, BARBARA	
200	SMITH, TRAVIS	
242	BOWERS, STANLEY E	
250	DEWAYNE ARMSTRONG	
	JACKSON, KENNETH M	
255	FRANCIS, JOHNNY S	
264	JONES, DERRICK L	
279	ROBERTS, GLENN A	
The state of the s		

Target Street Cross Street Source

- ✓ EDR Digital Archive

COUNTY ROAD 801 2005

128	MORELAN, RALPH
187	COBB, LULA
198	ARMSTRONG, JOYCE M
200	SMITH, TRAVIS
206	PARRIS, BEATRICE
209	WILCOX, TIFFANY
211	GULLETT, JASON
212	ARMSTRONG, ALVIN T
312	MOSS, MARY E
318	WILLIAMS, MARY F
324	BUCKNER, IRENE
348	RUTHEM, JAMES J
362	JEFFREYS, ANDY A
375	CALDWELL SOLUTIONS INC
	CALDWELL, JAMES E
379	JENKINS, MICHAEL S
382	RULE, CHARLES
390	RULE, CHARLES D
405	CHURCH OF CHRIST-GATEWAY
408	WITT, EUGENE

Target Street Cross Street Source

- EDR Digital Archive

COUNTY ROAD 802 2005

Target Street Cross Street Source

- ✓ EDR Digital Archive

	COUNTY ROAD 801 2000
128	MORELAN, RALPH
198	ARMSTRONG, APRIL
200	SMITH, T
206	PARRIS, B
212	ARMSTRONG, ALVIN
318	WILLIAMS, FRANCIS
324	VAUGHN, IRENE
348	RUTHEM, JAMES
374	WOODY, ALICE
375 382	CALDWELL, JAMES E RULE, CHARLES
390	RULE, DOUG
405	CHURCH OF CHRIST-GATEWAY
408	WITT, EUGENE

Target Street Cross Street Source

- EDR Digital Archive

COUNTY ROAD 802 2000

	000111111071002	
110	14/11 14 14 16 16 16	
110	WILLIAMS, JOHN	
123	ARMSTRONG, LUCILLE V	
120	AUXON AUX	
256	MIXON, MIKE	
279	ROBERTS, GLENN	
2.0	NOBERTO, GEETHY	

<u>Target Street</u> <u>Cross Street</u> <u>Source</u>

✓ - EDR Digital Archive

COUNTY ROAD 802 1995

400	ADMOTDONO LUOULE V
123	ARMSTRONG, LUCILLE V

Etowah Future Housing Site

County Road 802 Etowah, TN 37331

Inquiry Number: 5424177.6

September 14, 2018

The EDR Property Tax Map Report



EDR Property Tax Map Report

Environmental Data Resources, Inc.'s EDR Property Tax Map Report is designed to assist environmental professionals in evaluating potential environmental conditions on a target property by understanding property boundaries and other characteristics. The report includes a search of available property tax maps, which include information on boundaries for the target property and neighboring properties, addresses, parcel identification numbers, as well as other data typically used in property location and identification.

NO COVERAGE

Thank you for your business.

Please contact EDR at 1-800-352-0050 with any questions or comments.

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Etowah Future Housing Site

County Road 802 Etowah, TN 37331

Inquiry Number: 5424177.8

September 14, 2018

EDR Building Permit Report

Target Property and Adjoining Properties



EDR Building Permit Report: Search Documentation

9/14/18

Site Name: Client Name:

Etowah Future S&ME

County Road 802 4291 Highway 58

Etowah, TN 37331 Chattanooga, TN 37416

EDR Inquiry # 5424177.8 Contact: Barry Burnette

Search Documentation

DATA GAP

The complete collection of Building Permit data available to EDR has been searched, and as of 9/14/18, EDR does not have access to building permits in the city where your target property is located (Etowah, TN).

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EDR BUILDING PERMIT REPORT

About This Report

The EDR Building Permit Report provides a practical and efficient method to search building department records for indications of environmental conditions. Generated via a search of municipal building permit records gathered from more than 1,600 cities nationwide, this report will assist you in meeting the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

Building permit data can be used to identify current and/or former operations and structures/features of environmental concern. The data can provide information on a target property and adjoining properties such as the presence of underground storage tanks, pump islands, sumps, drywells, etc., as well as information regarding water, sewer, natural gas, electrical connection dates, and current/former septic tanks.

ASTM and EPA Requirements

ASTM E 1527-13 lists building department records as a "standard historical source," as detailed in § 8.3.4.7: "Building Department Records - The term building department records means those records of the local government in which the property is located indicating permission of the local government to construct, alter, or demolish improvements on the property." ASTM also states that "Uses in the area surrounding the property shall be identified in the report, but this task is required only to the extent that this information is revealed in the course of researching the property itself."

EPA's Standards and Practices for All Appropriate Inquires (AAI) states: "§312.24: Reviews of historical sources of information. (a) Historical documents and records must be reviewed for the purposes of achieving the objectives and performance factors of §312.20(e) and (f). Historical documents and records may include, but are not limited to, aerial photographs, fire insurance maps, building department records, chain of title documents, and land use records."

Methodology

EDR has developed the EDR Building Permit Report through our partnership with BuildFax, the nation's largest repository of building department records. BuildFax collects, updates, and manages building department records from local municipal governments. The database now includes 30 million permits, on more than 10 million properties across 1,600 cities in the United States.

The EDR Building Permit Report comprises local municipal building permit records, gathered directly from local jurisdictions, including both target property and adjoining properties. Years of coverage vary by municipality. Data reported includes (where available): date of permit, permit type, permit number, status, valuation, contractor company, contractor name, and description.

Incoming permit data is checked at seven stages in a regimented quality control process, from initial data source interview, to data preparation, through final auditing. To ensure the building department is accurate, each of the seven quality control stages contains, on average, 15 additional quality checks, resulting in a process of approximately 105 quality control "touch points."

For more information about the EDR Building Permit Report, please contact your EDR Account Executive at (800) 352-0050.





Appendix IV – Client and Regulatory Provided Infor	mation

Parcel Detail Page 1 of 2



Home About New Search Return to List

County Number: 054 County Name: MCMINN Tax Year: 2018

Property Owner and Mailing Address

Jan 1 Owner: ETOWAH CITY OF PO BOX 390 ETOWAH, TN 37331

Property Location

Address: CO RD 802

Map: 118 Grp: Ctrl Map: 118 Parcel: 101.00 Pl: S/I: 000

Value Information

Reappraisal Year: 2018

Land Mkt Value:\$154,200Improvement Value:\$0Total Market Appraisal:\$154,200Assessment %:0Assessment:\$0

General Information

Class: 02 - CITY

City #: 254 City: **ETOWAH** SSD1: 000 SSD2: 000 District: 101 04 Mkt Area: 0 # Bldgs: 0 # Mobile Homes: 01 - PUBLIC / PUBLIC **Utilities - Electricity:** 01 - PUBLIC **Utilities - Water / Sewer:**

Utilities - Gas / Gas Type: 01 - PUBLIC - NATURAL GAS Zoning:

Subdivision Data

Subdivision:

Plat Bk: Plat Pg: Block: Lot:

Additional Description

04 115 115 08801 000 W ROBERTS SURV 10/89

Building Information

Extra Features

Sale Information

Sale DatePriceBookPageVac/ImpType InstrumentQualification06/28/1990\$127,00011M610VACANTWDC

Parcel Detail Page 2 of 2



PHASE I ENVIRONMENTAL SITE ASSESSMENT - USER QUESTIONNAIRE

SITE: Etowah Future Housing Site: County Road 802, Etowah, Tennessee S&ME Project No: 4181-15-055P

In order to qualify for *Landowner Liability Protections (LLPs)*, ASTM E1527-13 specifies that the ESA User must provide the following information, if available, to the Environmental Professional. Failure to provide this information could make the ESA incomplete and the User unable to qualify for *LLPs*.

- Are you aware of any environmental clean-up liens against the property that are filed or recorded under federal, tribal, state or local laws? No Ne that I am quare of
- Are you aware of any Activity and Use Limitations (AUL's) such as engineering controls, land use restrictions, or institutional controls that are in place at the site and/or have been filed or recorded in a registry under federal, state or local laws? None I am Gware of.
- As the User of this ESA, do you have any specialized knowledge or experience related to the subject property or nearby properties? Only what would be expected of one overseeing. The frequesty use for the last 11 years.
- Does the purchase price being paid for this property reasonably reflect the fair market value of the property? If not, is the lower purchase price attributable to known or suspected contamination? As far as I am aware its purchase price was at fair market value when purchased.
- Are you aware of information about the property that would be helpful in identifying conditions indicative of contaminant releases, such as: a) past use of the property; b) presence of specific chemicals (past or present); c) spills or chemical releases at the property; or d) environmental cleanups that have taken place at the property? Nove I are a were of, No spills or contamination. Issues in the lest II years.
- As the User of this Phase I ESA and based on your knowledge and experience of the property, are there any obvious indicators that point to the presence or likely presence of contamination on the property?

In addition, certain other information should be provided, although not necessarily to qualify for *LLPs*, including: contact information for past and current property owners, operators and occupants; the reason for performing this ESA; and documentation showing the property address, location and boundaries.

Signature 9/13/18 Date

PHASE I ENVIRONMENTAL SITE ASSESSMENT - USER-FURNISHED INFORMATION

SITE: Etowah Future Housing Site: County Road 802, Etowah, Tennessee S&ME Project No: 4181-15-055P

The following is a list of documents and information that could be useful to S&ME, Inc. in preparing your Phase I Environmental Site Assessment (ESA). Please check the appropriate boxes below, sign, and fax or mail this form along with the signed Agreement for Services and completed User Questionnaire. This form will be attached to, and made a part of, your completed Phase I ESA.

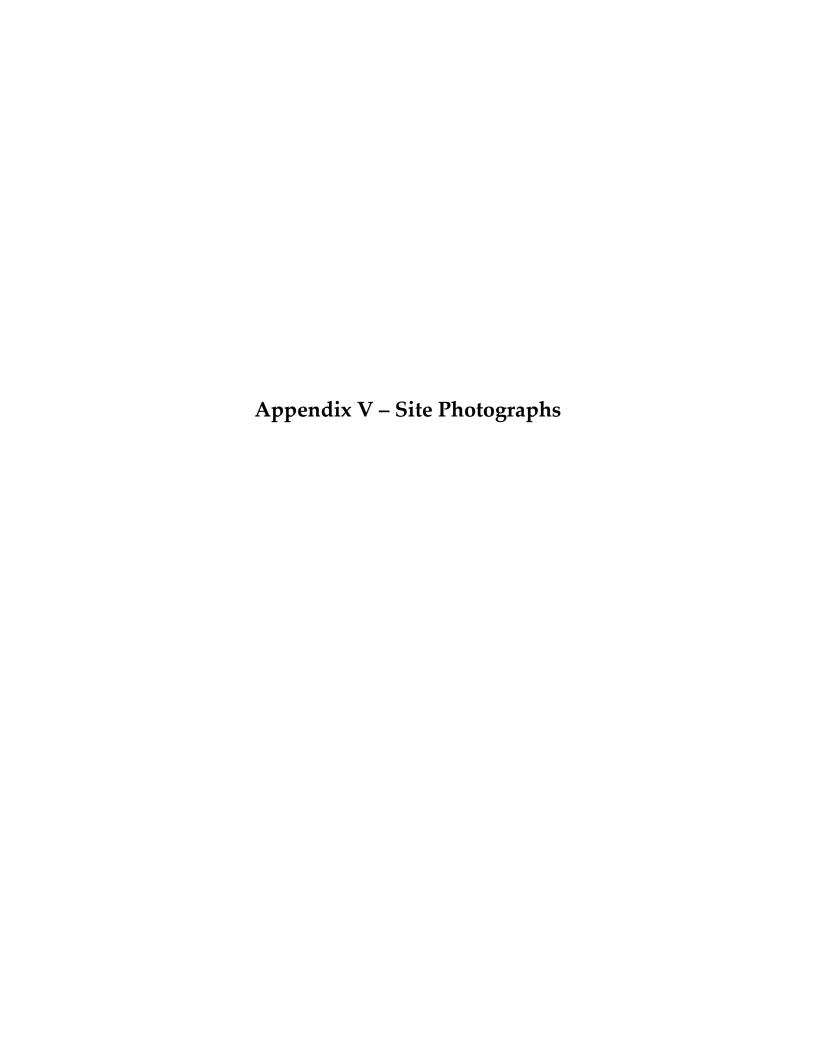
Yes	No	
		Environmental site assessment reports
	V 2	Environmental audit reports
	V 3,	Environmental permits (i.e. solid waste disposal permits, hazardous waste disposal permits, wastewater permits, NPDES permits)
	V 4.	Registrations for underground and above-ground storage tanks
	V 5.	Material safety data sheets (MSDS)
	V 5	Community right-to-know plan
	7.	Safety plans; preparedness and prevention plans; spill prevention, counter-measure and control plans, etc.
	V 8.	Reports regarding hydrologic conditions on the property or surrounding area
		Reports of any past or current environmental remediation on-site or on adjoining Properties
	110	Notices or other correspondence from any government agency relating to past or existing environmental liens encumbering the property
	V 11	
	12	Geotechnical studies
	V 13	Report of earthwork or land filling activities on-site
	14	Information concerning any pending, threatened, or past litigation or administrative proceedings relevant to hazardous substances or petroleum products
	15.	Notices from any governmental entity regarding any possible violation of petroleum environmental laws or possible liability relating to hazardous substances or products
	W 15	Disclosure of sumps, pits, drainage systems (i.e. the existence of and location)
		Building plans (architectural, utility, structural)
		Description of current site operations, including layout drawings or sketches
		Title report/chain-of-title
		Tax assessor records (previous owner and occupants)
		Purchase price analysis (if lower than comparables)
		Current and historical photographs of the site
V		Current and historical topographic maps of the site
1		Table 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
hava rai	iowod the	shows list and shocked the "Vos" have for those items that would be swelled to COMM

I have reviewed the above list and checked the "Yes" box for those items that would be available to S&ME for review and/or copy.

Signature 9

9/17/18

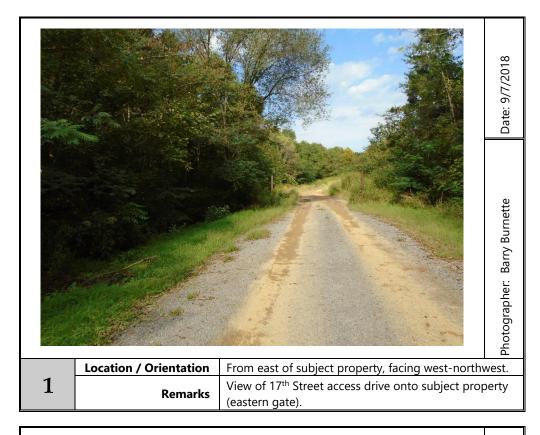
Date

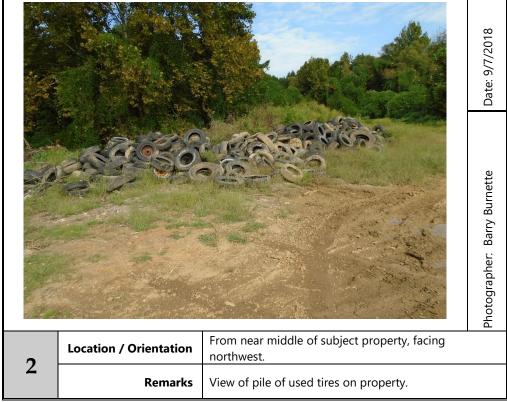


Phase I Environmental Site Assessment

SETDD-Etowah Future Housing Site County Road 802 Etowah, McMinn County, Tennessee S&ME Project No. 4181-15-055P





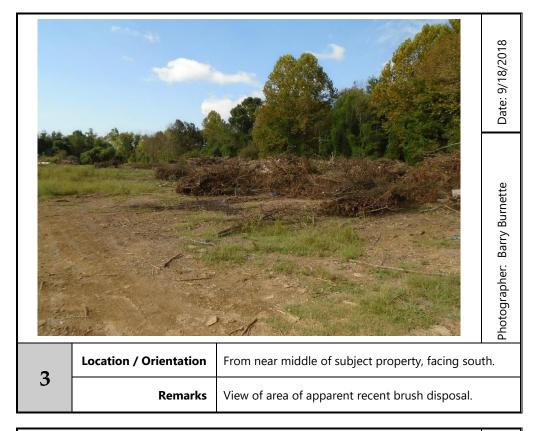


September 20, 2018 1

Phase I Environmental Site Assessment

SETDD-Etowah Future Housing Site County Road 802 Etowah, McMinn County, Tennessee S&ME Project No. 4181-15-055P





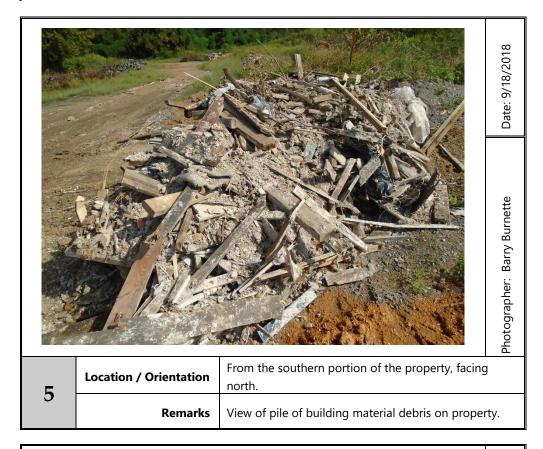


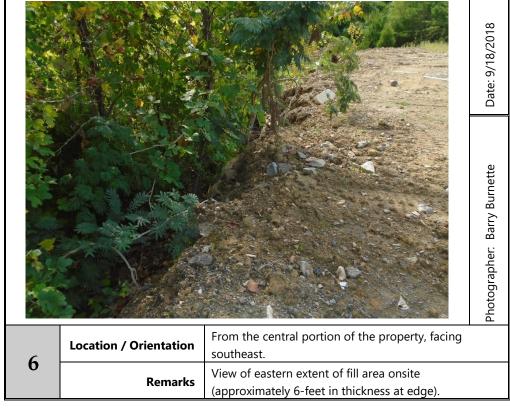
September 20, 2018 2

Phase I Environmental Site Assessment

SETDD-Etowah Future Housing Site County Road 802 Etowah, McMinn County, Tennessee S&ME Project No. 4181-15-055P



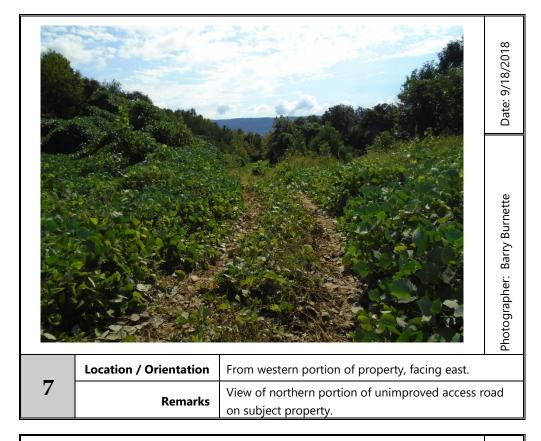


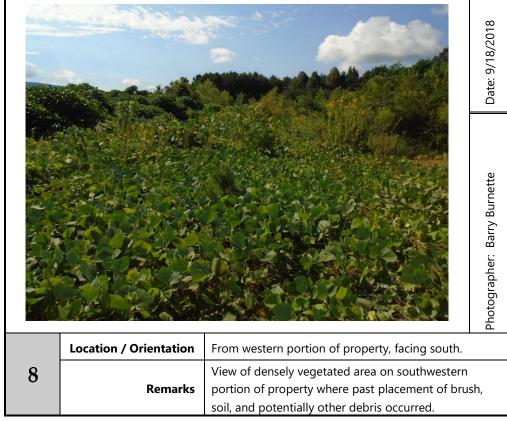


September 20, 2018 3

SETDD-Etowah Future Housing Site County Road 802 Etowah, McMinn County, Tennessee S&ME Project No. 4181-15-055P

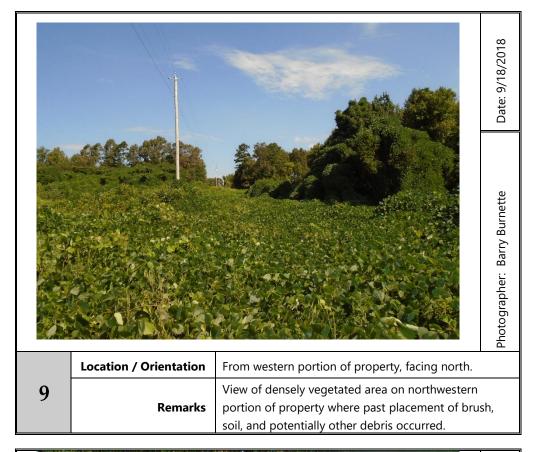


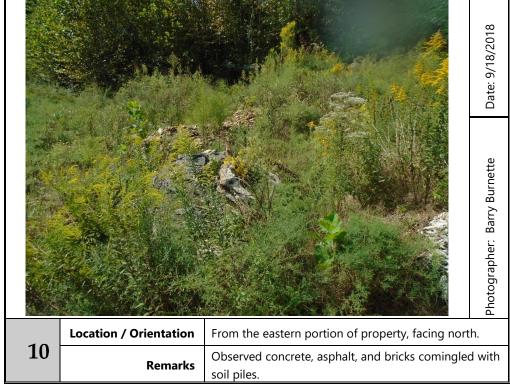




SETDD-Etowah Future Housing Site County Road 802 Etowah, McMinn County, Tennessee S&ME Project No. 4181-15-055P

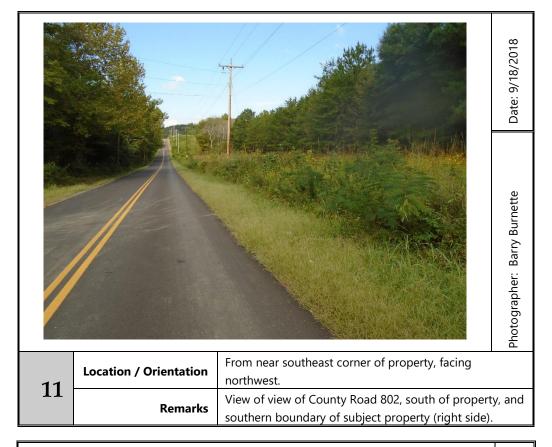


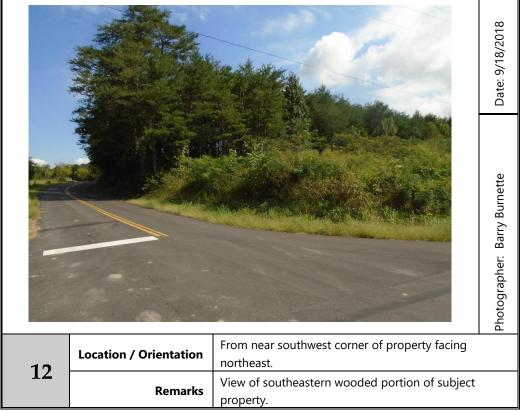




SETDD-Etowah Future Housing Site County Road 802 Etowah, McMinn County, Tennessee S&ME Project No. 4181-15-055P

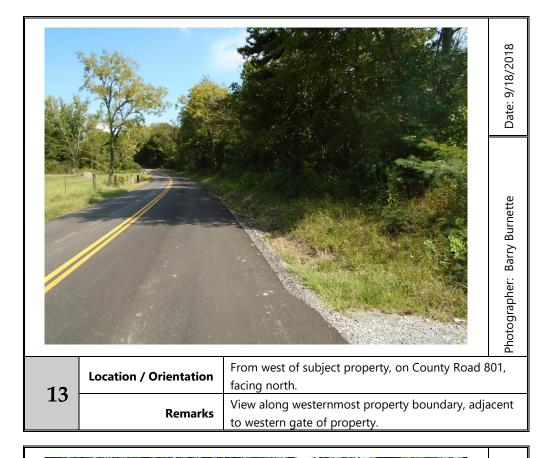


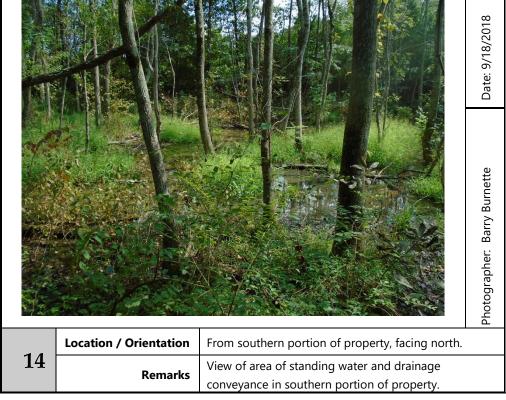


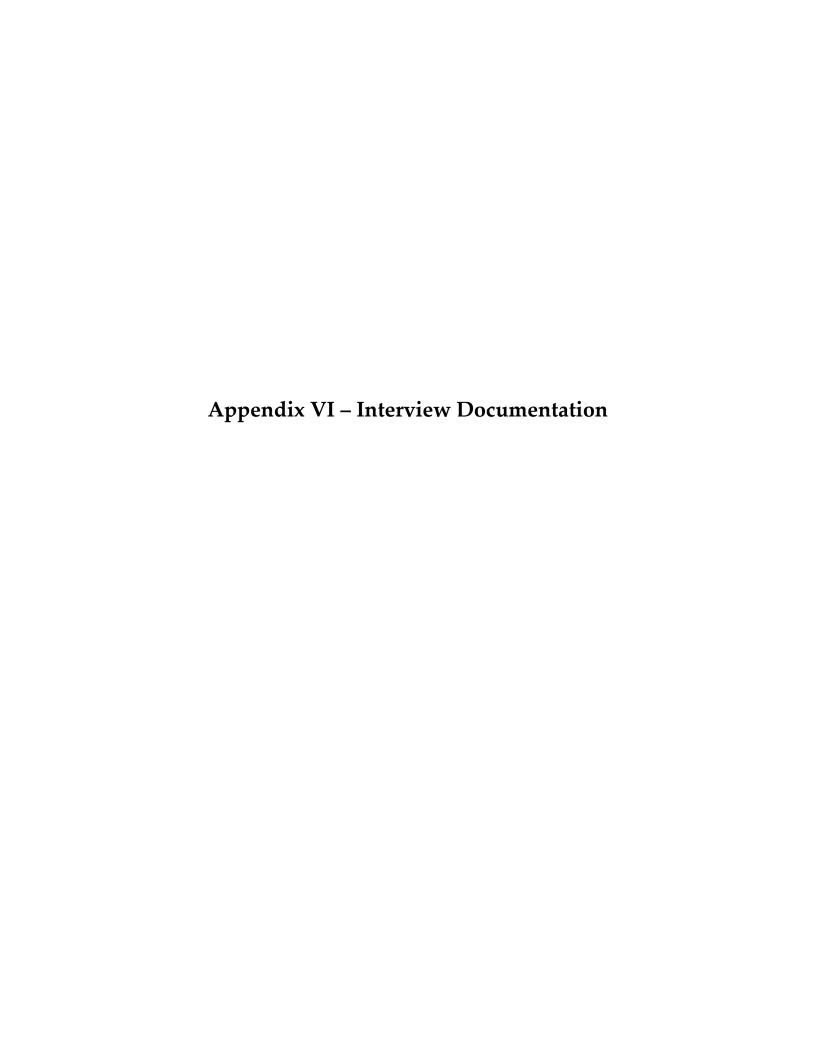


SETDD-Etowah Future Housing Site County Road 802 Etowah, McMinn County, Tennessee S&ME Project No. 4181-15-055P











RECORD OF CONVERSATION

То:	Ms. Tin	a Tuggle, City Manag	er	Compan	ıy:	City of Etow	<i>y</i> ah.	
Phone:	423-26	3-2202		Date:		September	21, 2018	
Project No.:	4181-1	5-055 Phase P		Project N	Name:	Etowah Fut	ure Housing Site ESA	
Re:	Subjec	t property		From:		Barry Burne	tte	
⊠ Project	t File	☐ For Review	☐ Please Cor	mment	□ Ple	ase Reply	☐ Please Recycle	

Ms. Tuggle stated she has been familiar with the property for about 2 years. Ms. Tuggle stated that the City has owned the property since 1990, and had purchased it from the Cantrell Family. Ms. Tuggle stated that she had heard the property was previously farm land with possibly a few residential and/or barn structures on it. Ms. Tuggle stated that the property was currently used by the City of Etowah as a brush disposal site. She stated some soils and possibly some building materials had also been disposed of onsite, but that she did not know the origin of the materials. She said it was possible that some building materials from the old fire station that was recently demolished had been taken to the site. Ms. Tuggle stated that she was not aware of any site specific property uses of concern; or any use, storage, or disposal of hazardous materials or petroleum products on the property.

When asked specifically if she was aware of any environmental liens, cleanups or deed restrictions associated with the property, Ms. Tuggle stated she was not. No information regarding AULs or governmental notification relating to past or recurrent violations of environmental laws with respect to the subject property were reported to S&ME during this interview.



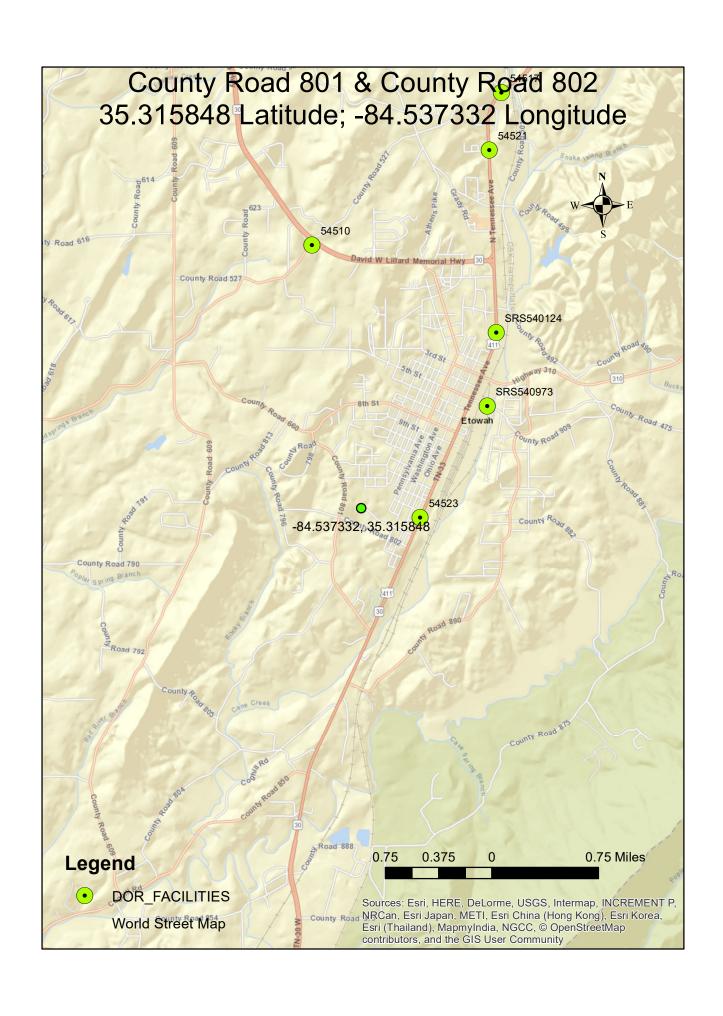
RECORD OF CONVERSATION

То:	Mr. Billy Ingram, Director of Public Wo		Public Works	orks Company:		City of Etowah		
Phone:	423-26	53-9044		Date:		September	21, 2018	
Project No.:	4181-1	5-055 Phase P		Project N	Name:	Etowah Futi	ure Housing Site ESA	
Re:	Subjec	t property		From:		Barry Burne	tte	
☑ Project	t File	☐ For Review	☐ Please Co	mment	□ Plea	ase Reply	☐ Please Recycle	

Mr. Ingram stated that he has been in his position for eleven years and has been familiar with the subject property since that time. He indicated that the property was currently owned by the City of Etowah, and had been purchased from the Cantrell family in about 1990. Mr. Ingram stated that he thought since around 2008, the City of Etowah has used the property as primarily a brush disposal site, though some soil, concrete, asphalt, and miscellaneous building materials have been disposed of onsite. When asked specifically who had brought these items to the property and if there were records for where the materials originated, Mr. Ingram stated that to his knowledge only four entities had used the site for disposal: The City of Etowah (Public Works); Etowah Utilities; the McMinn County Road Department; and the Tennessee Department of Transportation (TDOT). He stated that to his knowledge there were no records relative to the material origins prior to being brought to site, and no records relative to quantities that had been brought onsite. Mr. Ingram also stated that he thought TDOT had also used the site as a soil borrow site during a widening of Highway 411 sometime in the early 1990's. When asked specifically about a pile of tires observed on the property. Mr. Ingram stated the tires were brought to the site by the City of Etowah and were just being stored there until they could be properly disposed of.

Mr. Ingram stated he was not aware of any past onsite use, storage, or disposal of hazardous substances or petroleum products on the subject or adjoining properties. Mr. Ingram stated that he had no knowledge of aboveground or underground storage tanks ever having been located on the property, and he had no knowledge of any past site specific property uses of concern.

When asked specifically if he was aware of any environmental liens, cleanups or deed restrictions associated with the property, Mr. Ingram stated he was not. No information regarding AULs or governmental notification relating to past or recurrent violations of environmental laws with respect to the subject property were reported to S&ME during this interview.



Barry Burnette

From: Division Remediation < Division.Remediation@tn.gov>

Sent: Tuesday, September 25, 2018 7:44 PM

To: Barry Burnette

Cc: TDEC Public.Records.Request; Kathy Lowery; Troy Keith; Erin F. Sutton; Christina

McNaughton

Subject: 440311948 RE: Public Records Request

Attachments: County Road 801 & County Road 802, Etowah, TN.pdf

Good Afternoon

There are 2 Division of Remediation (DOR) Sites with assigned coordinates within an approximate one mile radius of the County Rd 801 & County Rd 802, Etowah, TN location. The table below lists the DOR sites and locations.

DIVISION	FACILITY_ID	PRIMARY_NAME	TDEC_SITE_ID	STATUS	EFO	LATITUDE	LONGITUDE	SI
								14
DOR	54523	Thompson Env Services	47911	Withdrawn	Knoxville	35.314812	-84.530028	A۱
DOR	SRS540973	CSX Railroad Yard	93051	Closed	SRP	35.326073	-84.521454	1:

The Drycleaner Environmental Response Program (DCERP) will respond separately.

Please find attached a PDF map of the location of the Division of Remediation facilities in reference to County Rd 801 & County Rd 802, Etowah, TN.

Please let me know if you have any other questions.

Additional information may be available at:

https://www.tn.gov/environment/program-areas/rem-remediation/meth.html

and

Registry of Methamphetamine Contaminated Properties at:

 $\underline{https://www.tn.gov/content/dam/tn/environment/remediation/documents/meth/rem_meth-quarantined-properties.pdf}$

Other divisions have Data Viewers available to the public that may have additional information at: https://www.tn.gov/environment/about-tdec/tdec-dataviewers.html

John Weakley, responding for <u>Division.Remediation@tn.gov</u>



John Weakley | Environmental Specialist

Division of Remediation William R. Snodgrass/TN Tower, 14th Floor 312 Rosa L. Parks Ave, Nashville, TN 37241 p. 615-532-0930

john.weakley@tn.gov

https://www.tn.gov/environment/program-areas/rem-remediation.html

WebEx Meeting Room

https://tngov.webex.com/join/JWeakley

Room Number 647 463 209

"Had a recent experience with TDEC? Please take a few minutes to complete our survey at: https://www.tn.gov/environment/about-tdec/contact-tdec-customer-service-form.html"

From: TDEC Public.Records.Request

Sent: Wednesday, September 19, 2018 1:24 PM

To: Division Remediation

Subject: FW: Public Records Request



Casey Mahoney | Director of Customer Interface Tennessee Tower, Second Floor 312 Rosa L. Parks Ave. Nashville, TN 37243

p. 615-532-8964 c. 615-218-1477 <u>Casey.Mahoney@TN.gov</u> <u>www.tn.gov/environment</u>

We value your feedback! Please complete our customer satisfaction survey.

From: noreply@formstack.com [mailto:noreply@formstack.com]

Sent: Wednesday, September 19, 2018 10:40 AM

To: TDEC Public.Records.Request **Subject:** Public Records Request

*** This is an EXTERNAL email. Please exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. - STS-Security***

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Formstack Submission For: Public Records Request

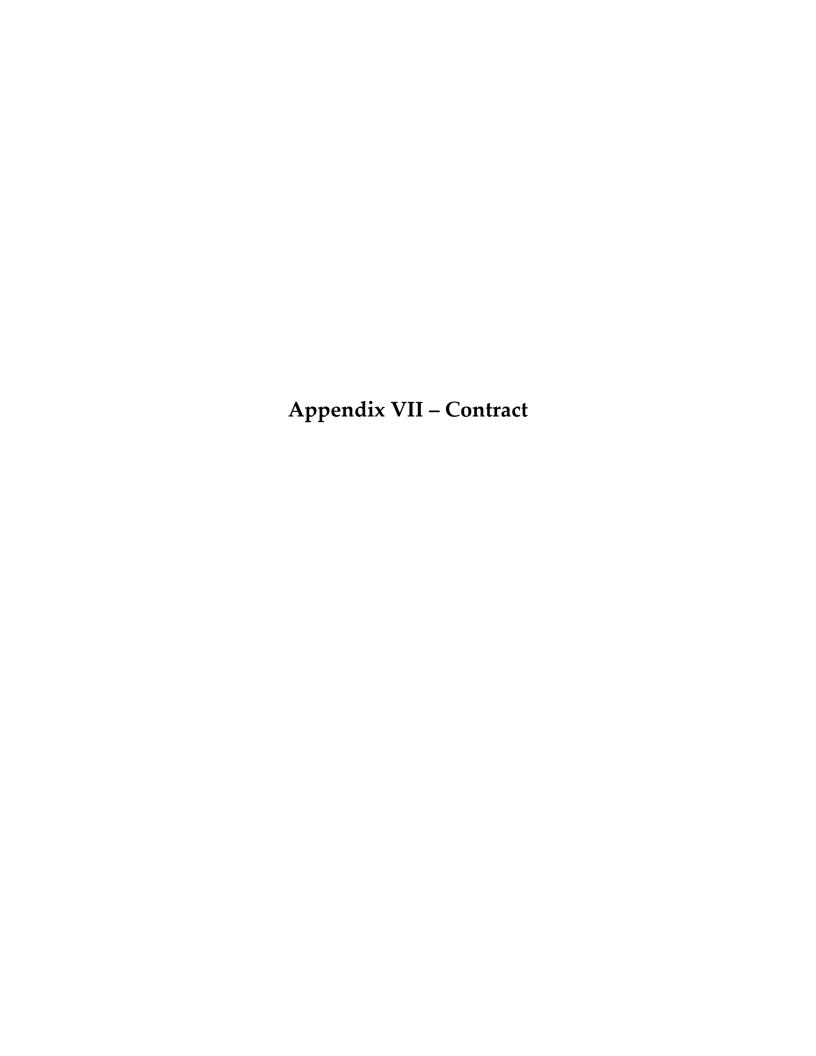
Submitted at 09/19/18 11:39 AM

Barry Burnette
(423) 443-2613
bburnette@smeinc.com
Yes
Records Inspection
No
Electronic
I am working on a Phase I ESA of a property in Etowah TN. and wanted to check to see if DoR were aware of any sites of concern on the subject property or adjoining/nearby properties. The property is approximately 43-acres, is unaddressed, and located on the northeast corner of the intersection between County Road 801 and County Road 802, in Etowah, TN. Coordinates for a point roughly in the middle of

records sought. As such, your record request must provide enough detail to enable the records custodian responding to the request to identify the specific records you are seeking.:	the site is 35.315848 Latitude; -84.537332 Longitude. Any Information you could provide on any nearby DoR sites would be greatly appreciated. Respectfully submitted
If site specific, choose the county:	McMinn County
If needed, upload any supporting documents or maps.:	
Signature of Requestor:	Direct Link to Image
Date/Time:	Sep 19, 2018 11:32 AM

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Formstack, 8604 Allisonville Road, Suite 300, Indianapolis, IN 46250





AGREEMENT FOR SERVICES

Form AS-071

Date: September 10, 2015	Job Number:			
S&ME, Inc. (hereafter Consultant)	Client Name: Southeast Tennessee Development District (hereafter Client)			
Address: 4291 Highway 58, Suite 101	Address: 1000 Riverfront Parkway			
City: Chattanooga	City: Chattanooga			
State: Tennessee Zip: 37416	State: Tennessee Zip			
Telephone: 423-499-0975	Telephone:			
Fax: 423-499-5070	-			
PRO	JECT			
Project Name: Southeast Tennessee Development District Coali Assessment Grant	tion EPA Brownfield Petroleum and Hazardous Substances			
Project location: (Street Address) City: State:	Zip:			
SERVICES TO	BE RENDERED			
Proposal Number: 411500356 dated: September 10, 2015 is incorporated into this Agreement For Services. This Agreement For Services is incorporated into the above Proposal.				

Client desires to contract with Consultant for the Services to be Rendered (Services) on Client's Project, as contained in Consultant's Proposal. The Proposal and Client's Project are referenced immediately above.

THEREFORE, in consideration of the Mutual Covenants and Promises included herein, Client and Consultant agree as follows:

- 1. ACCEPTANCE: Client hereby accepts this offer by Consultant to provide the Services as contained in Consultant's Proposal and Budget and agrees that such Services and any additional Services authorized by Client shall be governed by the terms of this Agreement. If Client directs that Services commence prior to execution of this Agreement, Client agrees that commencement of Services by Consultant is in reliance on Client having accepted the terms of this Agreement and acknowledgment that Client will execute this Agreement, forthwith. Client may accept this Agreement for Services through the use of Client's Purchase Order, however all preprinted terms and conditions on Client's purchase order are inapplicable and the terms of this Agreement shall govern. Unless this offer is previously accepted, it will be withdrawn automatically at 5:00 pm EST, ninety (90) days from the date of issue. Under no conditions shall the fees and expenses paid by Client exceed the budget of \$322,000, unless Client agrees in writing to any increased fees and expenses.
- 2. **CONTRACT DOCUMENTS**: "Contract Documents" shall mean this Agreement for Services, the Budget and the Proposal identified under "SERVICES TO BE RENDERED."
- 3. PAYMENT: Client will pay Consultant for Services and expenses in accordance with the Contract Documents. If prices for Services are not specified in the Contract Documents, Consultant's current fee schedule in effect for the location providing the Services shall control. Consultant will submit progress invoices to Client monthly and a final invoice upon completion of Services. Payment is due upon receipt of the invoice unless otherwise agreed to in writing prior to the submittal of the invoice. Invoices are past due 30 calendar days after the date of the invoice. Past due amounts are subject to a late fee of one and one-half percent per month (18 percent per annum) or the highest amount allowed by applicable law on the outstanding balance, whichever is less. Attorney's fees and other costs incurred in collecting past due

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W/16

amounts shall be paid by Client. The Client's obligation to pay under this Agreement is in no way dependent upon the Client's ability to obtain financing, payment from third parties, approval of governmental or regulatory agencies, or Client's successful completion of the Project.

Without incurring any liability to the Client, Consultant may either suspend or terminate this Agreement if Client fails to pay any undisputed invoice amounts within 60 calendar days of the invoice date, or if Client states its intention not to pay forthcoming invoices. Such suspension or termination will not waive any other claim Consultant may have against Client. Following such suspension or termination, Consultant may resume work by mutual agreement with Client after payment by Client of all outstanding invoiced amounts and collection expenses. Client waives all claims for damages or delay as a result of such suspension or termination.

- 4. STANDARD OF CARE: Consultant and its agents, employees and subcontractors shall endeavor to perform the Services for Client with that degree of care and skill ordinarily exercised, under similar circumstances, by consultants practicing in the same discipline at the same time and location. In the event any portion of the Services fails to substantially comply with this standard of care obligation and Consultant is promptly notified in writing prior to one year after completion of such portion of the Services, Consultant will re-perform such portion of the Services, or if re-performance is impractical, Consultant will refund the amount of compensation paid to Consultant for such portion of the Services.
- 5. LIMITATION OF LIABILITY: Consultant's aggregate liability responsibility to Client, including that of our officers, directors, employees and agents, is limited to \$1,000,000, hereinafter referred to as LIMITATION OF LIABILITY. This limitation of LIABILITY applies to all lawsuits, claims or actions, whether identified as arising in tort, INCLUDING NEGLIGENCE (WHETHER SOLE OR CONCURRENT), PROFESSIONAL ERROR OR OMISSIONS, BREACH OF WARRANTY (EXPRESS OR IMPLIED), NEGLIGENT MISREPRESENTATION, AND STRICT LIABILITY, contract, or other legal theory, including without limitation, Consultant's indemnity obligations to Client related to the Services provided in this Agreement and any continuation or extension of our Services.

By entering into this Agreement, Client acknowledges that this Limitation of LIABILITY provision has been reviewed, understood and is a material part of this Agreement, and that Client has had an opportunity to seek legal advice regarding this provision.

- 6. **DISCLAIMER OF CONSEQUENTIAL DAMAGES**: In no event shall Consultant or Client be liable to the other for any special, indirect, incidental or consequential loss or damages, including, but not limited to, lost profits, damages for delay, or loss of use arising from or related to Services provided by Consultant.
- 7. REPORTS: In connection with the performance of the Services, Consultant shall deliver to Client one or more reports or other written documents reflecting Services provided and the results of such Services. All reports and written documents delivered to Client are instruments reflecting the Services provided by Consultant pursuant to this Agreement and are made available for Client's use subject to the limitations of this Agreement. Instruments of Service provided by Consultant to Client pursuant to this Agreement are provided for the exclusive use of Client, and Client's agents and employees for the Project and are not to be used or relied upon by third parties or in connection with other projects. Subject to the authorized use of Client, and Client's agents, and employees, all Instruments of Service, other written documents, all original data gathered by Consultant and work papers produced by Consultant in the performance of or intrinsic to the Services included in the Services are, and shall remain, the sole and exclusive property of Consultant.

Documents that may be relied upon by Client are limited to the printed copies (also known as hardcopies) that are signed or sealed by Consultant. Files in electronic media format of text, data, graphics, or of other types that are furnished by Consultant to Client are only for the convenience of Consultant and Client. Any reliance on information obtained or derived from such electronic files will be at the Client's or other user's sole risk.

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- 8. SAFETY: Consultant is solely responsible for the safety and health of Consultant's employees and lower tier subcontractors. Consultant shall take necessary precautions for the safety of its employees and lower-tier subcontractors. Consultant specifically disclaims any authority or responsibility for general job safety and for the safety of persons who are not employed by Consultant, Consultant's Contractor(s) or lower-tier subcontractors. Should Client, or third parties, be conducting activities on the Site, then each shall have responsibility for their own safety and compliance with applicable safety requirements.
- 9. SAMPLES: Unless otherwise requested, test specimens or samples will be disposed of immediately upon completion of tests and analysis. Upon written request, Consultant will retain samples for an agreed to duration and for a mutually acceptable storage charge. In the event that samples contain or may contain hazardous materials, Consultant shall, after completion of testing and at Client's expense, return such samples to Client or make samples available for disposal by Client's agent. Client recognizes and agrees that Consultant is acting as a bailee and at no time assumes title to said samples.

10. CLIENT OBLIGATIONS:

- (a) Client warrants that all information provided to Consultant regarding the Project and Project location are complete and accurate to the best of Client's knowledge.
- (b) Client agrees to furnish Consultant, its agents, employees, and subcontractors a right-of-entry and any authorizations needed for Consultant to enter onto the project site to perform the Services included in this Agreement.
- (c) Consultant will take reasonable precautions to minimize damage to the Project Site from Consultant's activities and from the use of equipment. Client recognizes that the performance of the Services included in this Agreement may cause alteration or damage to the Site. Client acknowledges that some site disturbance is inherent in the work for which Consultant will not be responsible. Should Client not be owner of the property, then Client agrees to notify the owner of the aforementioned possibility of unavoidable alteration and damage.
- (d) Client agrees to disclose the identity of all utilities serving the Project Site and the presence and accurate location of hidden or obscured man-made objects known to Client that may be in Consultant's work area.
- 11. **CERTIFICATIONS**: Client agrees not to require that Consultant execute any certification with regard to work performed, tested or observed under this Agreement unless: 1) Consultant believes that it has performed sufficient work to provide a sufficient basis to issue the certification; 2) Consultant believes that the work performed, tested or observed meets the criteria of the certification; and 3) Consultant has reviewed and approved in writing the exact form of such certification prior to execution of this Agreement. Any certification by Consultant is limited to an expression of professional opinion based upon the Services performed by the Consultant, and does not constitute a warranty or guarantee, either expressed or implied.
- 12. FAILURE TO FOLLOW RECOMMENDATIONS: The Client agrees that it would be unfair to hold the Consultant liable for problems that may occur if the Consultant's recommendations are not followed. Accordingly, the Client waives any claim against the Consultant, and agrees to indemnify, and hold harmless the Consultant from any claim or liability for injury or loss that results from failure to implement the Consultant's recommendations or from implementation of the Consultant's recommendations in a manner that is not in strict accordance with them.

13. TERMINATION:

For Convenience - Upon written notice, Client or Consultant may terminate the performance of any further Services included in this Agreement if the terminating party determines termination is in the terminating party's interest. Upon receipt of a termination notice by either party, Consultant shall stop work on all

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Services included in this Agreement and deliver any Instruments of Service complete at that time to Client and Client shall pay Consultant within thirty (30) days for all Services performed up to the dispatch or receipt of the termination notice. Upon Termination for Convenience, Consultant and Client shall have no further rights or remedies other than those included in this paragraph.

- For Cause —In the event of material breach of this Agreement, the party not breaching the Agreement may terminate it upon five (5) business days written notice delivered or mailed to the other party, which notice must identify the material breach. The Agreement may not be terminated for cause if the breaching party cures the breach within five (5) business days of receipt of the written notice unless the same or a similar breach occurs a second time in which event no cure shall be available. Upon Termination for Cause, Consultant shall stop work on all Services included in this Agreement and deliver any instruments of service complete at that time to Client and Client shall pay Consultant within thirty (30) days for all Services performed up to the termination. Upon Termination for Cause, Consultant and Client shall have no further rights or remedies other than those included in this paragraph.
- 14. UNFORESEEN CONDITIONS OR OCCURRENCES: If, during the performance of Services ,any unforeseen hazardous substance, material, element or constituent or other unforeseen conditions or occurrences are encountered which, in Consultant's judgment, significantly affects or may affect the Services, the risk involved in providing the Services, or the recommended Scope of Services, Consultant will promptly notify Client. Subsequent to that notification, Consultant may: (a) If practicable, in Consultant's judgment and with approval of Client, complete the original Scope of Services in accordance with the procedures originally intended in the Proposal; (b) Agree with Client to modify the Scope of Services and the estimate of charges to include the previously unforeseen conditions or occurrences, such revision to be in writing and signed by the parties and incorporated into this Agreement; or (c) Terminate the Services effective on the date of notification pursuant to the terms of TERMINATION FOR CONVENIENCE. Client is responsible for reporting any releases of hazardous substances to appropriate government agencies as required by law. Client acknowledges that Consultant also may have reporting obligations under controlling law and regulations. Client waives any claim against Consultant and will indemnify and hold Consultant harmless from any claim, injury or loss arising from the discovery of unforeseen hazardous substances.
- 15. FORCE MAJEURE: Consultant shall not be deemed to be in default of this Agreement to the extent that any delay or failure in the performance of the Scope of Work results from any causes beyond its reasonable control. For this purpose, such acts or events shall include, but are not limited to, storms, floods, unusually severe weather, epidemics, civil disturbances, war, riot, strikes, lockouts or other industrial disturbances, and the inability within reasonable diligence to supply personnel, equipment, information or material to the Project. In the event that such acts or events occur, it is agreed that Consultant shall attempt to overcome all difficulties arising and to resume as soon as reasonably possible the normal pursuit of the Services covered by this Agreement.
- 16. **INSURANCE**: Consultant shall maintain at its own expense, during the term of this Agreement, the following insurance: (1) Workers' Compensation providing statutory coverages required by the state where services are provided, (2) Employer's Liability with limits of \$1,000,000 each accident, (3) Commercial General Liability with limits of \$1,000,000 each occurrence / \$2,000,000 aggregate, (4) Commercial Automobile with limits of \$1,000,000 each accident, (5) Umbrella Excess Liability with limits of \$5,000,000 each occurrence and (6) Professional Liability with limits of \$5,000,000 each claim. Upon receipt of written request, Client shall be included as an additional insured under the General Liability and Automobile Liability policies on a primary and non-contributory basis.
- 17. **INDEMNITY**: To the extent permitted by law, Client agrees to indemnify Consultant, its agents, employees, and subcontractors from and against any and all losses, liabilities, and costs and expenses of every kind (including cost of defense, investigation, settlement, and reasonable attorney's fees), which Consultant, its agents, employees, and subcontractors may incur, become responsible for, or pay out as a result of bodily injuries (including death) to any person, damage to any property, or both, to the extent

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caused by Client's negligence or willful misconduct. Consultant agrees to indemnify Client from and against any and all losses, liabilities, and costs and expenses of every kind (including cost of defense, investigation, settlement, and reasonable attorney's fees) which Client may incur, become responsible for, or pay out as a result of bodily injuries (including death) to any person, damage to any property, or both, to the extent caused by Consultant's negligence or willful misconduct. Client and Consultant shall, in the event of liability arising out of their joint negligence or willful misconduct indemnify each other in proportion to their relative degree of fault.

- 18. **DISPUTE RESOLUTION**: Consultant may, in Consultant's sole discretion, pursue collection of past due invoices by litigation in a court of competent jurisdiction. Other than Consultant's collection of past due invoices, in the event of a dispute between Consultant and Client with regard to any matter arising out of or related to this Agreement, the Parties will use their best efforts to resolve the dispute amicably within fifteen (15) calendar days. If the dispute cannot be settled amicably, the Parties agree that the dispute shall be subject to mediation with a mediator jointly selected by the parties. Once a party submits a written request for mediation, the parties shall agree to schedule such mediation within 30 days of such a request. The costs of mediation shall be paid equally by the Parties. If mediation fails to bring a conclusion to the dispute, either Party may bring such civil action as it deems appropriate in a court of competent jurisdiction in Tennessee.
- 19. ASSIGNMENT AND SUBCONTRACTS: Neither party may assign this Agreement, in whole or in part, without the prior written consent of the other party, except for an assignment of proceeds for financing purposes. Consultant may subcontract for the Services of others without obtaining Client's consent if Consultant deems it necessary or desirable to have others perform Services.
- 20. **NO WAIVER**: No waiver by either party of any default by the other party in the performance of any provision of this Agreement shall operate as or be construed as a waiver of any future default, whether like or different in character.
- 21. **MISCELLANEOUS**: The validity, interpretation, and performance of this Agreement shall be governed by and construed in accordance with the laws of the state where project is located. This Agreement represents the entire understanding and agreement between the parties hereto relating to the Services and supersedes any and all prior negotiations, discussions, and Agreements, whether written or oral, between the parties regarding same. No amendment or modification to this Agreement or any waiver of any provisions hereof shall be effective unless in writing, signed by both Parties. If any part of this subcontract is found to be unenforceable, then the parties' intent is to have such part rewritten to attain as close as possible the original intent of the unenforceable provision.
- 22. **TIME BAR**: Notwithstanding any applicable state statute of repose or statute of limitation, the Parties agree that all legal actions by either party against the other concerning this Agreement or the work performed in relation to this Agreement, will become barred four (4) years from the time the party knew or should have known of the claim, or four (4) years after completion of Consultant's services, whichever occurs earlier.

CONSULTANT HEREBY ADVISES CLIENT THAT ITS PERFORMANCE OF THIS AGREEMENT IS EXPRESSLY CONDITIONED ON CLIENT'S ASSENT TO THE TERMS AND CONDITIONS DETAILED HEREIN.

IN WITNESS WHEREOF, the Parties have caused this Agreement t	o be executed by their duly authorized representative
CLIENT: Southeast TN. Dev. Distan	
	E, inc.
BY: B: BY: BY:	(Signature)
Beth Jones, Exec. Director (Print Name/Title)	BLICM, SOUT / AREA MANAGER
(Print Name/Title)	(Print Name/Title)

DATE:	DATE: 11-16-2015
PROPOSAL NUMBER: 411500356	
Client's FAXED or DIGITAL	signature to be treated as original signature

gym,is

Prepared by: SETDD Reference No. 1

SITE ACCESS AGREEMENT

The Southeast Tennessee Development District ("SETDD") was awarded a grant from the Environmental Protection Agency (EPA) to assess properties in the ten-county area in order to aid in the redevelopment of this historically residential, industrial and commercial area. SETDD has contracted with S&ME, Inc. (hereinafter referred to as "S&ME"), a professional environmental consulting company to perform these assessments.

- 1... I/We are the Property Owners or their authorized representatives for the properties located at City of Etowah owned parcel, County Road 802, Parcel #118 101.00 ("Identified Properties"), shown on the attached maps as "Exhibit A".
- 2. I agree to allow S&ME to perform the Services detailed below. I understand that S&ME will have to enter the Identified Properties in order to perform these Services, and I grant S&ME and its contractors, employees and agents (Authorized Parties) a license and right of entry upon the Identified Properties. The permission granted by the Property Owner under this Agreement is contemplated to be used for the following activities that may be performed by Authorized Parties (only those services initialed by the Property Owner are authorized under this Agreement):

Phase I Environmental Site Assessment (ESA) Services:

a. Access to all areas of the Identified Properties, including interior portions of structures, to conduct site reconnaissance, interviews, take photographs, and prepare site maps.

Approved and initialed here by Owner: Att Jothe Cily of Etowal

Phase II Environmental Site Assessment (ESA) Services:

- a. Investigation of soil and groundwater, including, but not limited to, the removal and appropriate disposal of petroleum underground storage tanks, the installation of soil borings, test pits and/or groundwater monitoring wells, the use of geophysical equipment, the use of drilling equipment for collection of soil and sediment samples, the logging, gauging and sampling of existing wells, videotaping, preparation of site sketches, taking photographs, and any collection of groundwater, soil, surface water, sediment, air, soil vapor or other material samples.
- b. Collection of potential asbestos-containing material and/or lead-based paint samples.
- c. Temporary on-site storage and subsequent removal and disposal of investigation-derived waste.
- d. Disclosure of environmental information as required by law.

- As Property Owner I underty 3. As Property Owner, I understand that S&ME will provide reasonable advance notice of the date upon which these Services will be performed, and it will be no less than two (2) days before access is desired.
- 4. The granting of this permission by the Property Owner is not intended, nor should it be construed, as an admission of liability on the part of the Property Owner or the Property Owner's successors and assigns for any contamination discovered on the Identified Property.

Prepared by: SETDD Reference No. 1

5. Upon completion of the investigation, S&ME, on behalf of the SETDD, will restore the property as near as practicable to its condition immediately prior to the commencement of such activities.

- 6. S&ME and its employees, contractors, and agents shall enter upon the Identified Properties at their own risk, and Property Owner shall not be held responsible or liable for injury, damage, or loss incurred by S&ME arising out of or in connection with activities under this Agreement, except to the extent that any injury is caused due to the acts or omissions of Property Owner, any lessec of the Identified Properties, or any employee or agent of the Property Owner.
- 7. The Program will supply to the Property Owner all information derived from the assessment conducted at the Identified Properties.
- 8. Should Phase II Environmental Assessments be authorized and completed for the Identified Properties, S&ME and the SETDD agree to share the draft results and discuss remediation options, if applicable, with the Property Owner or representatives of the Property Owner prior to publication of the final Phase II Environmental Assessment report.
- 9. This permission is effective immediately upon the execution of this Agreement by Owner and the SETDD. This agreement will remain in full force and effect through September 30, 2018.

THIS SITE ACCESS AGREEMENT (this "Agreement") is made and entered into as of the

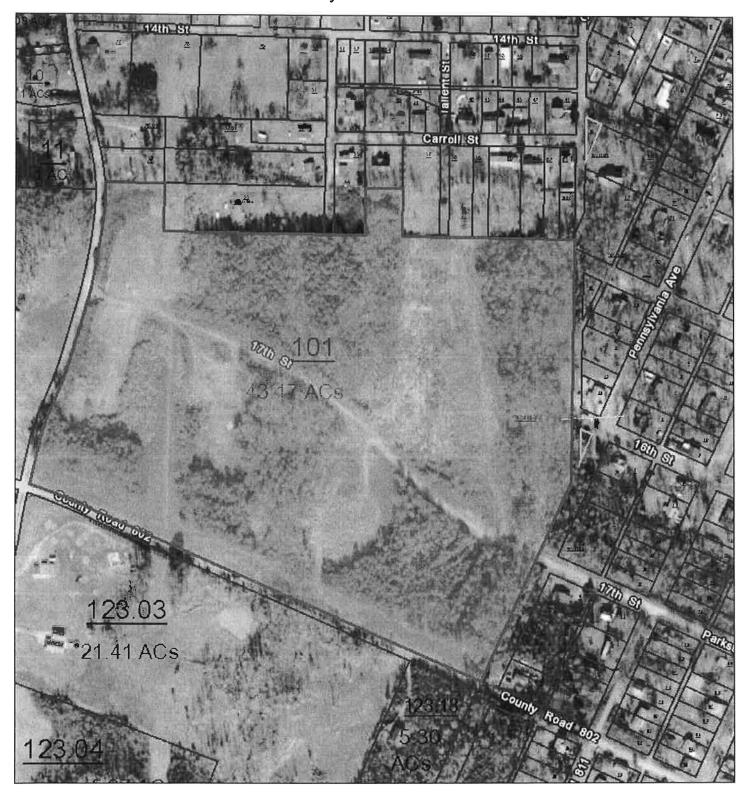
September, 2018 by and between the Southeast Tennessee Development District ("SETDD") and

APPROVED AS TO FORM:

(Representative of SETDD or preparing attorney)

ATTACHMENT: EXHIBIT A (Map of Property)

McMinn County - Parcel: 118 101.00



Date: September 12, 2018

County: McMinn

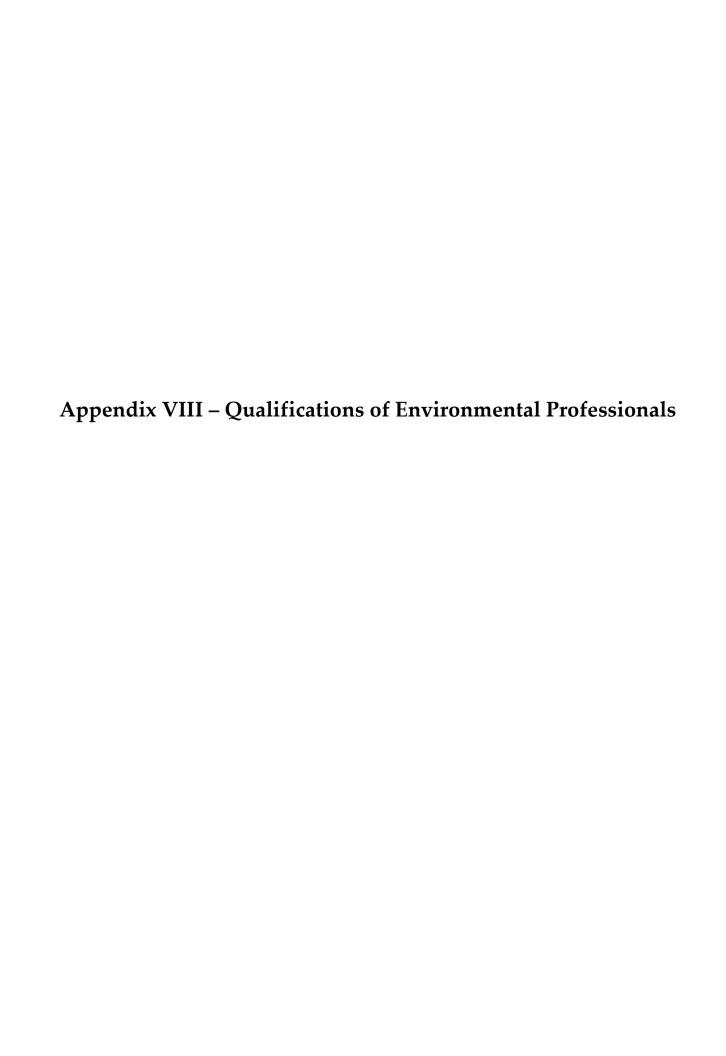
Owner: ETOWAH CITY OF Address: CO RD 802

Parcel Number: 118 101.00

Deeded Acreage: 0 Calculated Acreage: 42.8 Date of Imagery: 2014

TN Comptroller - OLG Esri, HERE, Garmin, © OpenStreetMap contributors TDOT

State of Tennessee, Complroller of the Treasury, Office of Local Government (OLG)







PROJECT ROLE

Senior Project Manager & Senior Reviewer

LOCATION

Chattanooga, TN

EDUCATION

- BA, Geology, Lehigh University, 1992
- ALCO Chemical Scholarship, 1996
- BSE, Environmental Engineering, University of Tennessee Chattanooga, 1997

YEARS OF EXPERIENCE

Joined S&ME in 2010 with 15 years of experience

REGISTRATIONS

- PE, TN, #00107705 (currently expired)
- PG, TN, #TN5178

CONTINUING EDUCATION

- 40-hour Hazardous Waste Operations (OSHA 1910.120) and Annual 8-hr Refreshers
- AHERA Asbestos
 Inspector Certification
 and Annual Refreshers
- ITRC Vapor Intrusion Pathway

Johanna Heywood, PG

Senior Project Manager

Ms. Heywood is a Senior Engineer, Senior Reviewer, and manages the environmental professionals in S&ME's Chattanooga office. She is responsible for environmental projects and supports business development. She has over 20 years of experience including due diligence Phase I and Phase II Environmental Site Assessments to identify and resolve environmental concerns relative to a site's soil and groundwater conditions, and interacting and negotiating with appropriate regulatory agencies to establish strategies for site characterization/remediation. Other project types include Brownfields (including Ground Penetrating Radar surveys, Underground Storage Tank closures, and engineering controls), and Indoor Air Quality Studies. Ms. Heywood has provided assessment-related work for projects including multiple city blocks, and residential, industrial and commercial properties in Tennessee, Georgia, Alabama, and Florida, as well as Pennsylvania and New Jersey, historically, highly industrialized areas.

Key Projects and Assignments Environmental Due Diligence

Charles Bell Elementary – Brownfield Cleanup Chattanooga, Tennessee

Ms. Heywood managed the implementation of EPA Brownfield Cleanup grant for the former Charles A Bell Elementary School. The approximately 11-acre school site was a vacant property located between residential and industrial areas. The intent of the clean-up was to allow reuse of the site as a passive park in order to bring value-added open space to the surrounding community and its residents. Prior investigations identified elevated concentrations of polycyclic aromatic hydrocarbons (PAHs) exceeding EPA Regional Screening Levels (RSLs) and other contaminants on the subject property, including asbestos and leaded paint in the school building. Cleanup of the site included abatement of asbestos and lead paint, partial demolition of the existing building, and placement of a cap to provide a barrier between the surface and PAH-contaminated soil, eliminating the exposure pathway.

Douglas Heights: East 10th and University Streets Chattanooga, Tennessee

Ms. Heywood was the project manager and the senior professional on the Phase I ESA and Phase II investigation for an approximately 5-acre property occupying roughly 2½ blocks in downtown Chattanooga. Subject property land use consisted of parking and a TVA fleet management garage, including storing and dispensing gasoline from USTs. Prior land use also included a former Trailways bus terminal, automotive repair facilities and two gas stations. Foundry sand was observed across the site. Other contaminants of concern included petroleum and solvents. Ms. Heywood also provided regulatory coordination related to the Brownfield Agreement and prepared the Soil Management Plan and UST Closure



and Well Abandonment Plans, pursuant to the Brownfield Agreement and Land Use Restrictions. S&ME's services allowed our client to receive liability protection under the TDEC Brownfield Voluntary Agreement from the State of Tennessee. The construction of this project, the largest in downtown Chattanooga in years, began housing students in the Fall of 2016.

Phase I ESAs

City of Chattanooga

Ms. Heywood was the senior reviewer on numerous Phase I ESAs conducted on behalf of right of way acquisitions for the City of Chattanooga Department of Transportation projects, stormwater and other infrastructure improvement projects, and property acquisitions through General Services Administration. Some of the project include those acquisitions on: Agawela Drive, St Elmo Avenue, Gunbarrel Road ROWs, Centro Street, Greenway View Drive, Collegedale Pump Station, Fire Station No. 5, and Lee Highway.

City of Chattanooga Miller Park Phase I and Limited Phase II ESAs Chattanooga, TN | 2015-2018

Ms. Heywood was the project manager and senior reviewer on the Phase I ESA, Limited Phase II ESA and Soil Management Plan. Ms. Heywood developed the sampling plan at a downtown municipal park on behalf of the City to assist in determining potential impact to soil, groundwater and vapor resulting from past onsite and offsite historical concerns. The assessment was conducted in conjunction with planned park improvements which are under construction.

City of Chattanooga Patten Parkway Limited Environmental Assessment

Chattanooga, TN | 2015-2018

Ms. Heywood was the project manager and senior reviewer on the Limited Environmental Sampling Assessment relative to planned park and drainage improvements for Patten Parkway. Ms. Heywood developed the sampling plan and provided senior review of the report, including recommendations for approval and disposal of material containing foundry sand.

Multiple Sites Greater Cleveland Area

Ms. Heywood was the project manager and senior reviewer on numerous Phase I and Phase II ESAs in the Greater Cleveland Area conducted in conjunction with economic development projects and commercial real estate transactions. Representative projects include Spring Branch Industrial Park, Old Woolen Mill, Sanda Mills, Lee Corners, United Knitting, American Uniform and Hardwick Clothing. S&ME completed the assessments within the prescribed time frame, on budget, and often under expedited schedules. Our due diligence-related services on many of the properties also included geotechnical exploration, property condition assessments (PCAs), asbestos and lead paint assessment, and natural resources evaluations.





PROJECT ROLE Environmental Staff Professional

LOCATION Chattanooga, TN

EDUCATION

- BS, Environmental Science with Biology concentration, 1998, University of Tennessee at Chattanooga
- AS, General, 1995, Chattanooga State Technical Community College

YEARS OF EXPERIENCE

Joined S&ME in 2006 with 8 years of experience

CONTINUING EDUCATION

- S&ME, Inc., Phase I Training Seminars, 2007, 2009, and 2012
- Asbestos Inspection / Assessment Training 2012
- 40-Hour Hazwoper Training, 2008, Chattanooga State Technical Community College
- 8-Hour Hazwoper refresher 2012
- 8-Hour Hazwoper
 Supervisor Training,
 2008
- 2008

 CPR and First Aid
 Certified, 2009

F. Barry Burnette

Environmental Staff Professional

Mr. Burnette is an Environmental Staff Professional for S&ME's Chattanooga Office and branch Health & Safety coordinator. He is skilled in the following areas: client relations, Phase I and Phase II Environmental Site Assessments, Natural Resource services, Underground Storage Tank services; and Site Specific Health & Safety Plans.

Representative Project Experience

Phase I Environmental Site Assessments

Tennessee, Georgia and Alabama

Staff Professional for multiple Phase I Environmental Site Assessments in accordance with the American Society for Testing and Materials (ASTM), standard practice E-1527-00 and E-1527-05.

Phase II Environmental Site Assessments

Tennessee and Georgia

Staff/Field Professional on multiple limited phase II Environmental Site Assessment projects.

Natural Resource Projects

Tennessee and Georgia

Staff Professional/Field Technician on initial wetland determinations, delineations, permitting, monitoring and related mitigation for multiple properties.

Site Specific Health and Safety Plans

Tennessee, Georgia and Alabama

Both writing and review of site specific health and safety plans on hazardous and non-hazardous sites.

Flowers Bakery Soil Gas Survey

Chattanooga, Tennessee

Staff Professional for soil gas survey at former UST facility. Project involved designing soil gas sampling plan and sampling.

Electric Power Board, Site Assessment and Remediation Chattanooga, Tennessee

Staff Professional/Field Technician for groundwater remediation activities impacted by chlorinated solvents under DCERP.

Walker County Schools, Bus Barn Facility, UST Assessment and Remediation

Chickamauga, Georgia

Staff Professional/Field Technician for groundwater remediation activities. Project involved an underground storage tank corrective action and environmental services.